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PB-287 225

Water Resources Data for Arkansas, Water Year 1973. Part 2. Water Quality Records

(U.S.) Geological Survey, Little Rock, AR Water Resources Div

1974

PB 287225

1973

Water Resources Data for Arkansas
Water Year 1973
Part 2. Water Quality Records

MARCH 3, 1849

REPRODUCED BY
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U.S. DEPARTMENT OF COMMERCE
SPRINGFIELD, VA. 22161

UNITED STATES
DEPARTMENT OF THE INTERIOR

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AR-73-2

Prepared in cooperation with the Arkansas Geological
Commission and with other State and Federal agencies

247

CALENDAR FOR WATER YEAR 1973

1972

OCTOBER

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1973

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SEPTEMBER

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BIBLIOGRAPHIC DATA SHEET

1. Report No. USGS/WRD/HD-78/105

2.

3. Recipient's Accession No. PB287225

4. Title and Subtitle

Water Resources Data for Arkansas
Water Year 1973
Part 2. Water Quality Records

5. Report Date 1974

6.

7. Author(s)

8. Performing Organization Rept. No. USGS-WDR-AR-73-2

9. Performing Organization Name and Address

U.S. Geological Survey, Water Resources Division
Room 2301 Federal Office Building
700 West Capitol Avenue
Little Rock, AR 72201

10. Project/Task/Work Unit No.

11. Contract/Grant No.

12. Sponsoring Organization Name and Address

U.S. Geological Survey, Water Resources Division
Room 2301 Federal Office Building
700 West Capitol Avenue
Little Rock, AR 72201

13. Type of Report & Period Covered Annual - Oct. 1, 1972 to Sept. 30, 1973

14.

15. Supplementary Notes

Prepared in cooperation with the Arkansas Geological Commission and with other State and Federal agencies.

16. Abstracts

Water resources data for the 1973 water year for Arkansas consist of records of discharge and water quality of streams, and water quality of lakes and reservoirs. This report contains water quality for 103 gaging stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellaneous analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating local, State, and Federal agencies in Arkansas.

17. Key Words and Document Analysis. 17a. Descriptors

*Arkansas, *Hydrologic data, *Water quality, Gaging stations, Lakes, Reservoirs, Chemical analyses, Sediments, Water temperatures, Sampling sites, Water analyses.

17b. Identifiers/Open-Ended Terms

17c. COSATI Field/Group

18. Availability Statement No restriction on distribution.

This report may be purchased from:
National Technical Information Service
Springfield, VA 22161

19. Security Class (This Report) UNCLASSIFIED

20. Security Class (This Page) UNCLASSIFIED

21. No. of Pages 247

22. Price MF A01
PC A11

1973

Water Resources Data for Arkansas

Water Year 1973

Part 2. Water Quality Records

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UNITED STATES
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Prepared in cooperation with the Arkansas Geological
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Prepared in Cooperation with

Arkansas Geological Commission
Corps of Engineers, U.S. Army
Environmental Protection Agency

Water resources records, 1973 for Arkansas are in the following reports of the U.S. Geological Survey:

1. Water Resources Data for Arkansas
   Part 1. Surface Water Records

2. Water Resources Data for Arkansas
   Part 2. Water Quality Records

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
2301 Federal Office Building
Little Rock, Arkansas 72201

1974

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[Letters after station name designate type of data:
(c), chemical; (t), water temperature;
(s), sediment]

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WATER RESOURCES DATA FOR ARKANSAS, 1973

Part 2. Water Quality Records

By B. F. Lambert and M. A. Moore

INTRODUCTION

Water Resources Data for Arkansas, 1973, Part 2, contains information on the chemical, biological, and physical characteristics of surface water in Arkansas. Locations of surface-water-quality stations are shown in figures 1 and 2. Arkansas district personnel who contributed significantly to the collection and preparation of data included in this report were: C. T. Bryant, S. R. Kennedy, M. K. Moore, and E. E. Morris. These data were collected by the Water Resources Division of the U.S. Geological Survey under the direction of R. T. Sniegocki, district chief, and by cooperating State and Federal agencies, as part of the National Water Data System.

The Geological Survey has published records of chemical quality, water temperatures, and sediment since 1941 in an annual series of water-supply papers entitled "Quality of Surface Waters in the United States." Beginning with the 1964 water year, water-quality records also have been released by the Geological Survey in annual reports on a State-boundary basis. These reports are designed primarily for release of data shortly after the end of the water year to meet local needs. The records will be published later in Geological Survey water-supply papers.

COOPERATION

This report was prepared by the U.S. Geological Survey under cooperative agreement with the Arkansas Geological Commission, Norman F. Williams, State geologist.

Agencies furnishing assistance were:

Corps of Engineers, U.S. Army
Environmental Protection Agency

Agencies furnishing additional records were:

Corps of Engineers, U.S. Army
Arkansas Game and Fish Commission
Arkansas Department of Pollution Control and Ecology

DEFINITION OF TERMS

Terms related to water-quality and hydrologic data as used in this report, are defined below. See also table for converting English Units to International System of Units (SI) on page 16.

Acre-foot (ac-ft, AC-FT) is a quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or 325,851 gallons.

Bed material is the shifting part of fragmented alluvial material of which the streambed is composed.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.983471 acre-feet, or 646,317 gallons.

Chemical oxygen demand (COD) indicates the quantity of oxidizable compounds present in a water and will vary with water compositions, concentration of reagent, temperature, period of contact, and other factors.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 millilitres is determined by the immediate incubation membrane-filter method.

Cubic foot per second (cfs, CFS) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to 7.48 gallons per second, or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids) that passes a given point within a given period of time.

Mean discharge is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Drainage area of a stream at a specified location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the river upstream from the specified point.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with the discharge record, the term is applied only to a gaging station where a continuous record of discharge is obtained.

Hardness of water is a phycial-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magensium) and is expressed as equivalent calcium carbonate ($CaCO_3$).

Methylene blue active substance (MBAS) is a measure of apparent detergents. The method used depends on the formation of a blue color when methylene blue dye reacts with synthetic detergent compounds.

Micrograms per litre (ug/l, UG/L) is a precise unit for expressing the concentration of chemical constituents in solution. One thousand micrograms per litre is equivalent to 1 milligram per litre.

Milligrams per litre (mg/l), MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per litre represents the weight of solute per unit volume of water. Milligrams or micrograms per litre may be converted to milliequivalents (one-thousandth of a gram-equivalent weight of a constituent) per litre by multiplying by the factors in table 1 below. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per litre of water-sediment mixture.

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per litre to milliequivalents per litre

Ion	Multiply by	Ion	Multiply by
Aluminum (Al^{+3})*	0.11119	Iodide (I^{-1})	0.00788
Ammonia as N	.07139	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate as N	.07139
Chromium (Cr^{+6})*	.11539	Nitrite as N	.07139
Cobalt (Co^{+2})*	.03394	Phosphate as P	.03228
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})*	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

*Constituent reported in micrograms per litre; multiply by factor and divide results by 1,000.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically during a period of years for use in hydrologic analyses.

Plankton is the floating (or weakly swimming) animal or plantlife in a body of water consisting chiefly of minute plants (as diatoms and blue-green algae) and of minute animals (as protozoan, entomostracans, and various larvae).

Sediment is solid material that originates mostly from disintegrated rocks and is transformed by, suspended in, or deposited from, water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some principal factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

> Suspended sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.
>
> Suspended-sediment discharge is the rate at which dry weight of sediment passes a section of a stream, or is the quantity of sediment, as measured by dry weight, or by volume, that is discharged in a given time. It is computed by multiplying discharge by suspended-sediment concentration (mg/l), and by 0.0027.
>
> Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per litre of water-sediment mixture (mg/l).
>
> Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour period.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio whould be known especially for water used for irrigating farmland.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimetre at 25°C. Because the specific conductance is related to the number and specific chemical types of ions in solution, it can be used for approximating the dissolved-solids concentration in the water. Commonly, the amount of dissolved solids (in mg/l) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may differ in the same stream, as the composition of the water changes.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the use of a thermograph or a digital mechanism that automatically records water temperature on paper tape.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour period.

SPECIAL NETWORKS AND PROGRAMS

Some of the stations for which data are published in this report are included in special networks and programs. These stations are identified by their title, set in parentheses, under the station name.

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regiment will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

International Hydrological Decade (IHD) River Stations provide a general index of runoff and materials in the water balance (discharge of water, and dissolved and transported solids) of the world. In the United States, IHD stations provide indices of runoff and of the general distribution of water in the principal river basins of the conterminous United States and Alaska.

National Stream-Quality Accounting Network: A national stream-quality accounting network has been designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and mangement. Both accounting and broad-scale monitoring objectives have been incorporated in the network design. Areal configuration of the network is based on river-basin accounting units designated by the Office of Water Data Coordination in consulation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in stream quality.

Pesticide program is a network of regularly sampled water-quality stations where additional monthly samples are collected to determine the concentration and distribution of pesticides in streams whose waters are used for irrigation or in streams in areas where potential contamination could result from the application of the commonly used insecticides and herbicides.

Pesticides are chemical compounds used to control the growth of undesirable plants and animals. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides. Since the first application of DDT as an insecticide in the early 1930's, almost 60,000 pesticide formulations have been registered, each containing at least one of the approximately 800 different basic pesticide compounds (Goerlitz and Brown, 1972, p. 24). The United States annually produces about 1 billion pounds of these compounds. Although efforts are being made to substitute many of the chlorinated hydrocarbon pesticides with more specific, fast-acting, and easily degradable compounds, chlorinated hydrocarbon pesticides are still commonly used in many areas of the country.

Radiochemical program is a network of regularly sampled water-quality stations where additional samples are collected twice a year (at high and low flow) to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins in the conterminous United States.

Radioisotopes are isotope forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus. For example: Ordinary chlorine is a mixture of isotopes having atomic weights 35 and 37, with the natural mixture having atomic weight about 35.453. Many of the elements similarly exist as mixtures of isotopes, and many new isotopes have been produced in the operation of nuclear devices such as the cyclotron (Rose, 1966). There are 275 isotopes of the 81 stable elements in addition to more than 800 radioactive isotopes.

Radioisotopes that are determined in this program are those of uranium in micrograms per litre, radium as radium-226 in picocuries per litre, gross beta radiation as strontium/yttrium-90 in picocuries per litre, and gross alpha radiation as micrograms of uranium equivalent per litre.

A picocurie (PC/L, pCi/l) is one millionth of the amount of radioactivity represented by a microcurie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegration per minute.

Tritium Network: A network of tritium-sampling stations has been established to provide baseline information on the occurrence of tritium in the Nation's surface waters. In addition to the surface-water stations in the network, tritium data are also obtained at a number of precipitation stations. The purpose of the precipitation stations is to provide an estimate sufficient for hydrologic studies of the tritium input to the United States.

Tritium concentrations are reported in terms of tritium units (TU); one TU is equal to 3.2436 picocuries per litre.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering upstream from all main-stream stations are listed before the first main-stream station. Stations on tributaries to tributaries are listed in a similar manner. In the list of water-quality stations in the front of this report the rank of tributaries is indicated by indention; each indention represents one rank.

As an added means of identification, each water-quality station, gaging station, and partial-record station has been assigned a station number on a national downstream order, except for some open bodies of water where station numbers consist of latitude and longitude. In assigning station numbers, no distinction is made between a partial-record and a continuous-record station; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. A water-quality station at or near a gaging station or a partial-record station has the same number as the gaging or partial-record station. Gaps are left in the numbers to allow for new stations that may be established; hence the numbers are not consecutive. The complete number for each station is made up of 8 digits (07060710). The first two digits constitute the part number (07). The identification number for each station in this report appears just to the left of the station name. The records are listed in downstream order by parts. All records for a drainage basin containing more than one State could be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin. The station number for each station is shown on the location maps (figs. 1 and 2) as an abbreviated number. The abbreviated number contains only the essential digits. For example, 607.1 is the abbreviated number for station 07060710.

COLLECTION AND EXAMINATION OF DATA

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads. Discharge records for streams in Arkansas have been released in the report "Water Resources Data for Arkansas, 1973, Part 1. Surface Water Records."

The data in this report include descriptions of the sampling stations and tabulations of the samples analyzed. The descriptions of the sampling stations give the location, drainage area, periods of records for the various water-quality data, extremes of the pertinent data, and general remarks, in a format similar to that used for streamflow-gaging stations.

Data on the quality of surface water were collected from designated sampling sites (maps on p. 14-15) at predetermined intervals such as once daily, weekly, monthly or less frequently; whereas, at some sites it was necessary to continuously record data on a punched paper tape at 60-minute intervals.

Water-quality information is presented for chemical, biological, and microbiological quality, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations where a continuous temperature recorder furnishes information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations.

Prior to 1968 water year, data for chemical constituents and concentrations of suspended sediment were reported in parts per million and water temperatures were reported in degrees Fahrenheit (°F). In October 1967, the Geological Survey began reporting data for chemical constituents and concentrations of suspended sediment in milligrams per litre (mg/l) and water temperature in degrees Celsius (centigrade, °C). In water that has a density of 1,000 g/ml (grams per millilitre), parts per million and milligrams per litre can be considered equal. In water that has a density greater than 1,000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per litre.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per litre instead of milligrams per litre. (See "Definition of Terms," p. 3, and table for converting English Units to SI Units, p. 16.)

To convert temperature in degrees Fahrenheit to degrees Celsius, see table 2, below.

Table 2.--Temperature conversion table at 0.5°C intervals, degrees Fahrenheit (°F) to degrees Celsius (°C)*
Temperature reported to nearest 0.5°C

°F	°C	°F	°C	°F	°C	°F	°C	°F	°C
32	0.0	50	10.0	68	20.0	86	30.0	104	40.0
33	.5	51	10.5	69	20.5	87	30.5	105	40.5
34	1.0	52	11.0	70	21.0	88	31.0	106	41.0
35	1.5	53	11.5	71	21.5	89	31.5	107	41.5
36	2.0	54	12.0	72	22.0	90	32.0	108	42.0
37	3.0	55	13.0	73	23.0	91	33.0	109	43.0
38	3.5	56	13.5	74	23.5	92	33.5	110	43.5
39	4.0	57	14.0	75	24.0	93	34.0	111	44.0
40	4.5	58	14.5	76	24.5	94	34.5	112	44.5
41	5.0	59	15.0	77	25.0	95	35.0	113	45.0
42	5.5	60	15.5	78	25.5	96	35.5	114	45.5
43	6.0	61	16.0	79	26.0	97	36.0	115	46.0
44	6.5	62	16.5	80	26.5	98	36.5	116	46.5
45	7.0	63	17.0	81	27.0	99	37.0	117	47.0
46	8.0	64	18.0	82	28.0	100	38.0	118	48.0
47	8.5	65	18.5	83	28.5	101	38.5	119	48.5
48	9.0	66	19.0	84	29.0	102	39.0	120	49.0
49	9.5	67	19.5	85	29.5	103	39.5	121	49.5

---

*C = 5/9 (°F - 32) or °F = 9/5 (°C) + 32.

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and the mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

Chemical-qaulity data published in this report are considered the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling, as much as is possible, consistent with available sampling techniques and methods of analysis.

Temperature

Water temperatures are measured at most of the water-quality stations, and at surface-water stations, at the time discharge measurements are made. At daily stations, the water temperatures are taken about the same time each day that the sample is collected. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations equipped with continuous recording thermographs, the records consist of the maximum and minimum temperatues for each day and the monthly averages.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to compute the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided-day method (time-discharge-weighted average). Therefore, for those days when the published sediment-discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily loads of suspended sediment were estimated by using water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

WATER-SUPPLY PAPERS

Table 3 shows the annual series of water-supply papers that give information on quality of surface waters in Arkansas. Data for the lower Mississippi River basin are given in Part 7; and for the western Gulf of Mexico basin in Part 8.

Table 3.--Water-supply paper numbers and parts, water years 1946-71

Year	Parts 7-8	Year	Parts 7-8	Part 7
1946	A1050	1959	1644	--
1947	A1102	1960	1744	--
1948	B1133	1961	1884	--
1949	B1163	1962	1944	--
1950	1188	1963	1950	--
1951	1199	1964	1957	--
1952	1252	1965	1964	--
1953	1292	1966	1994	--
1954	1352	1967	2014	--
1955	1402	1968	--	2096
1956	1452	1969	--	C2146
1957	1522	1970	--	C2156
1958	1573	1971	--	C2166

A Includes Parts 1-14.
B Includes Parts 7-14.
C In preparation.

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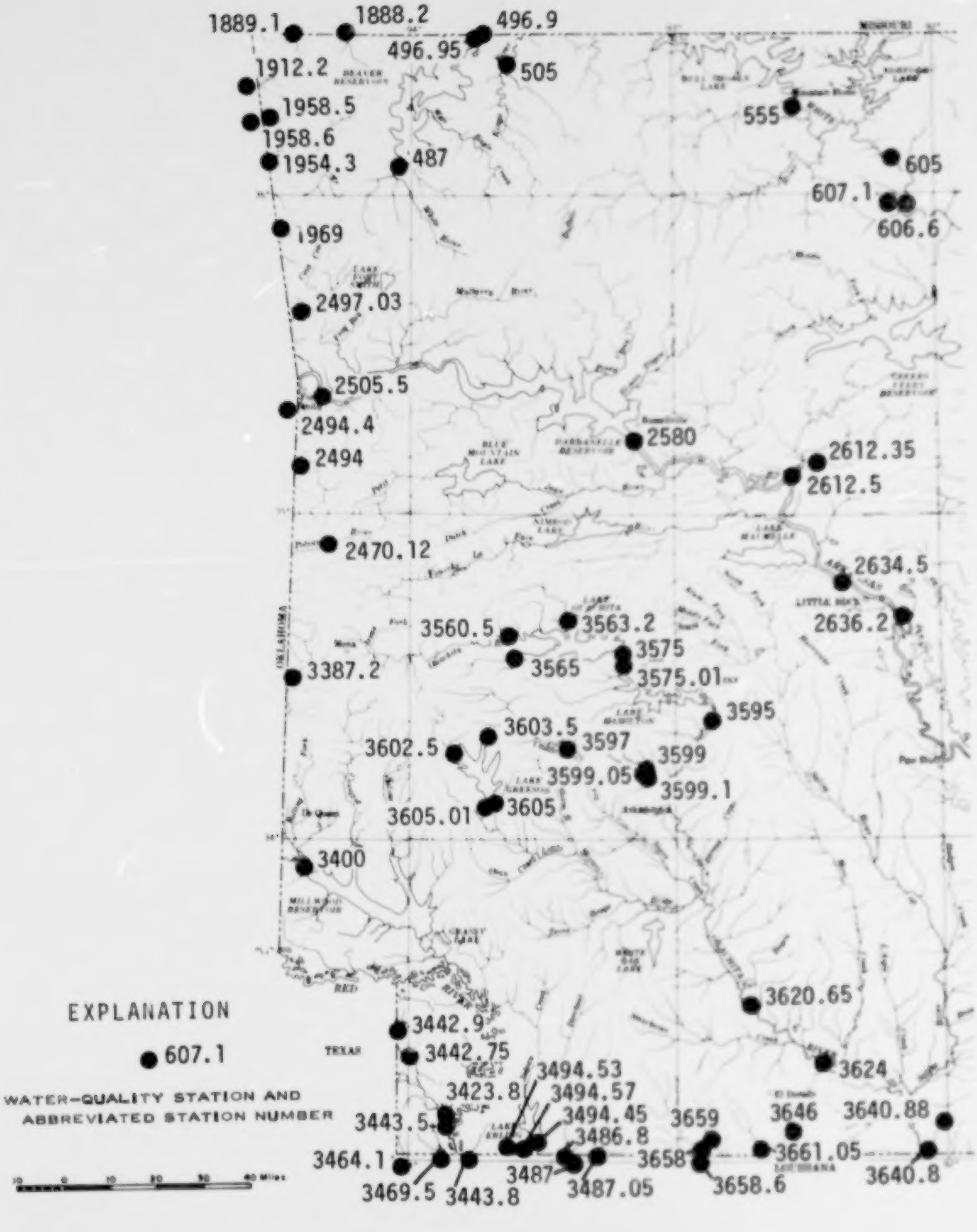
1889.1
1888.2
496.9
496.95
505
1912.2
1958.5
1958.6
1954.3
487
555
605
607.1
606.6
1969
2497.03
2505.5
2494.4
2494
2580
2612.35
2612.5
2470.12
2634.5
2636.2
3560.5
3563.2
3575
3575.01
3565
3387.2
3595
3603.5
3602.5
3597
3599
3599.05
3599.1
3605.01
3605
3400
OKLAHOMA
RED
TEXAS
LOUISIANA
3620.65
3442.9
3442.75
3624
3494.53
3423.8
3494.57
3494.45
3443.5
3486.8
3659
3646
3640.88
3464.1
3487
3658
3661.05
3658.6
3640.8
3469.5
3443.8
3487.05
EXPLANATION
● 607.1
WATER-QUALITY STATION AND ABBREVIATED STATION NUMBER
10 0 10 20 30 40 Miles

Figure 1.--Locations of water-quality stations in western Arkansas.

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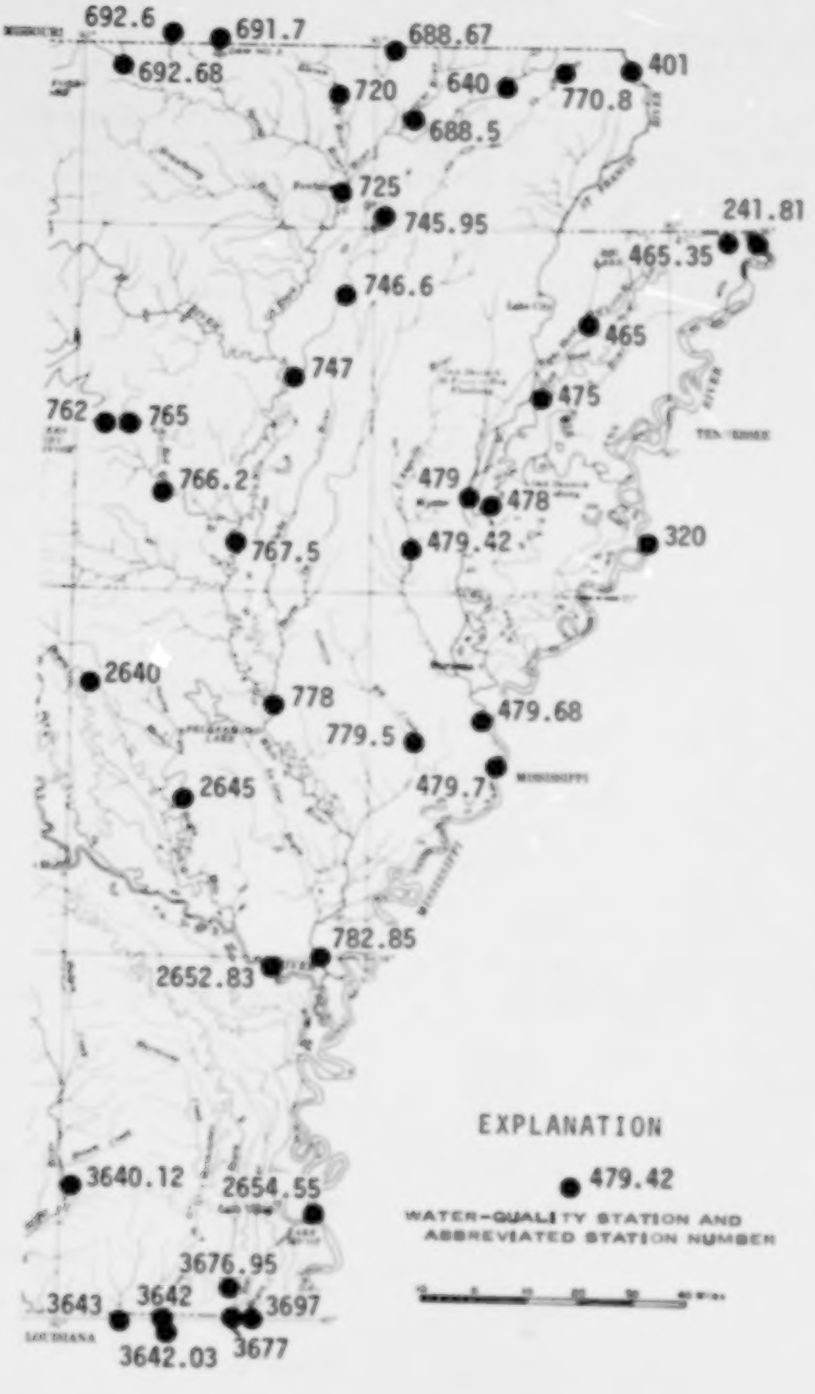
692.6
691.7
688.67
692.68
720
640
770.8
401
688.5
725
745.95
241.81
465.35
746.6
465
747
475
762
765
766.2
479
478
479.42
320
767.5
2640
778
479.68
779.5
479.7
2645
782.85
2652.83
3640.12
2654.55
3676.95
3643
3642
3697
3642.03
3677
MISSOURI
TENNESSEE
MISSISSIPPI
LOUISIANA
EXPLANATION
479.42
WATER-QUALITY STATION AND ABBREVIATED STATION NUMBER

Figure 2.--Locations of water-quality stations in eastern Arkansas.

Table 4.--Factors for converting English units to International System (SI) units

The following factors may be used to convert the English units published herein to the International System of Units (SI). This report contains, and subsequent reports will contain both the English and SI unit equivalents in the station manuscript descriptions until such time that all data will be published in SI units.

Multiply English units	By	To obtain SI units
	Length	
feet(ft)	.3048	metres(m)
miles(mi)	1.609	kilometres(km)
	Area	
square miles(mi^2)	2.590	square kilometres(km^2)
	Volume	
gallons(gal)	3.785	**litres(l)
	3.785	cubic decimetres(dm^3)
	3.785×10^{-3}	cubic metres(m^3)
cfs-day(ft^3/s-day)	2447	cubic metres(m^3)
	2.447×10^{-3}	cubic hectometres(hm^3)
acre-feet(acre-ft)	1233	cubic metres(m^3)
	1.233×10^{-3}	cubic hectometres(hm^3)
	1.233×10^{-6}	cubic kilometres(km^3)
	Flow	
cubic feet per second(ft^3/s)	28.32	litres per second(l/s)
	28.32	cubic decimetres per second (dm^3/s)
	.02832	cubic metres per second(m^3/s)
gallons per minute(gpm)	.06309	litres per second(l/s)
	.06309	cubic decimetres per second (dm^3/s)
	6.309×10^{-5}	cubic metres per second(m^3/s)
million gallons per day(mgd)	43.81	cubic decimetres per second (dm^3/s)
	.04381	cubic metres per second(m^3/s)
	Mass	
ton(short)	.9072	tonne(t)

*The unit hectare is approved for use with the International Sytem (SI) for a limited time. See NBS Bulletin 330, p.15, 1972 edition.

**The unit litre is accepted for use with the International System (SI). See NBS Special Bulletin 330, p.13, 1972 edition.

07024181 (revised) Mississippi River at Huffman, Ark.

LOCATION.--Lat 35°58'25", long 89°43'31", in SE¼SE¼SW¼ sec.29, T.16 N., R.13 E., Mississippi County, at the Grain Company loading platform, 0.5 mi (0.8 km) east of State Highway 137 at Huffman, 2.1 mi (3.4 km) northeast of Hickman, and 6.5 mi (10.5 km) upstream from Obion River.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
04...	--	--	--	--	--	66	--	17	--	--	--	--
18...	--	--	--	--	--	113	--	20	--	--	--	--
31...	359000	1300	190	44	16	110	88	15	2.9	.65	277	41
NOV.												
14...	662000	--	--	--	--	116	--	16	--	--	--	--
29...	780000	--	--	--	--	111	--	15	--	--	--	--
JAN.												
03...	925000	--	--	--	--	98	--	16	--	--	--	--
15...	677000	--	--	--	--	101	--	15	--	--	--	--
30...	832000	1710	185	35	12	111	47	13	3.6	.30	225	218
FEB.												
13...	950000	--	--	--	--	98	--	15	--	--	--	--
MAR.												
06...	672000	--	--	--	--	133	--	16	--	--	--	--
JUNE												
20...	690000	--	--	--	--	127	--	14	--	--	--	--
JULY												
17...	--	--	--	--	--	138	--	--	--	--	--	--
AUG.												
14...	--	--	--	--	8.0	--	16	--	--	--	--	--
15...	324000	--	--	--	--	137	--	16	--	--	--	--
21...	350000	2000	201	44	12	121	56	17	1.4	.17	263	224
SEP.												
05...	206000	--	--	--	--	144	--	16	--	--	--	--
17...	214000	--	--	--	--	132	--	19	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
04...	--	--	--	384	8.0	22.0	--	75	7.2	82	.7	--
18...	--	--	--	459	7.6	20.0	--	95	8.2	89	1.5	--
31...	318	160	110	388	7.9	16.0	30	56	9.2	93	1.0	3583
NOV.												
14...	--	--	--	386	7.7	16.0	--	150	9.6	97	1.9	--
29...	--	--	--	357	7.4	7.0	--	95	10.7	88	2.3	--
JAN.												
03...	--	--	--	312	7.6	5.0	--	70	12.0	96	2.4	--
15...	--	--	--	325	7.4	10.0	--	65	12.2	108	3.7	--
30...	443	160	88	325	7.2	7.0	50	210	11.6	95	11	2102
FEB.												
13...	--	--	--	356	7.8	5.0	--	300	11.9	96	3.5	--
MAR.												
06...	--	--	--	408	7.7	6.0	--	150	11.0	89	2.8	--
JUNE												
20...	--	--	--	386	7.9	26.0	--	65	8.8	86	2.1	--
JULY												
17...	--	--	--	--	8.1	--	--	120	--	86	.6	--
AUG.												
14...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	416	8.1	27.0	--	65	7.8	97	1.6	666
21...	407	150	110	390	8.0	27.0	7	95	7.3	92	1.6	4400
SEP.												
05...	--	--	--	436	8.2	27.0	--	27	9.0	112	2.3	1100
17...	--	--	--	416	8.0	22.0	--	36	7.3	83	1.3	1250

07024181 Mississippi River at Huffman, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
04...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
31...	640	720	10	2	<100	<5	30	20	<.1	<50	27
NOV.											
14...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
03...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	245	405	6	2	<100	<5	20	3	<.7	<50	19
FEB.											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
06...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
20...	--	--	--	--	--	--	--	--	--	--	--
JULY											
17...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	--	--	<3	10	<15	--	--	--	--	--	--
15...	175	--	--	--	--	--	--	--	--	--	--
21...	410	40	6	5	<15	--	<10	6	<.1	8	25
SEP.											
05...	875	--	--	--	--	--	--	--	--	--	--
17...	340	--	--	--	--	--	--	--	--	--	--

07032000 Mississippi River at Memphis, Tenn.
(National stream-quality accounting and pesticide station)

LOCATION.--Lat 35°07'37", long 90°04'25", Shelby County, at gaging station on left bank 50 ft (15.2 m) downstream from Harahan Bridge at Memphis, 1.3 mi (2.1 km) downstream from Beale Street gage, 3.5 mi (5.6 km) downstream from Wolf River, 70 mi (113 km) upstream from St. Francis River, and at mile 734.8 (1,182.3 km).

DRAINAGE AREA.--932,800 mi^2 (2,416,000 km^2), approximately.

PERIOD OF RECORD.--Chemical analyses: February to September 1973.
Water temperatures: February to September 1973.

EXTREMES.--February to September 1973:
Specific conductance: Maximum daily, 480 micromhos Sept. 27; minimum daily, 288 micromhos Mar. 20.
Water temperature: Maximum, 29.0°C July 25; minimum, 5.5°C Feb. 27-28.

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973

DATE	MEAN DAILY DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	SUSPENDED IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
JULY 13...	497000	6.3	4600	4500	40	850	280	280	0	26	48	16
AUG. 14...	317000	7.3	--	--	--	--	--	--	--	--	46	14
SEP. 07...	240000	2.8	--	--	--	--	--	--	--	--	47	15

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
JULY 13...	18	3.1	59	16	.4	2.1	.01	2.1	3.0	.33	293	.40
AUG. 14...	16	3.3	47	15	.5	1.7	.01	1.7	--	.22	280	.38
SEP. 07...	20	3.1	63	17	.2	.81	.01	.82	--	.19	339	.46

DATE	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)
JULY 13...	393000	190	55	17	.6	60	--	E86000	6700	150	7.0	.2
AUG. 14...	240000	170	41	16	.5	50	2.8	7200	E330	870	--	--
SEP. 07...	220000	180	40	19	.7	20	2.4	40000	2100	1000	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	SUSPENDED ARSENIC (AS) (UG/L)	DISSOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DEPOSITS (UG/G)	TOTAL CADMIUM (CD) (UG/L)	SUSPENDED CADMIUM (CD) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL CHROMIUM (CR) (UG/L)	SUSPENDED CHROMIUM (CR) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	TOTAL CHROMIUM IN BOTTOM DEPOSITS (UG/G)
JULY 13...	9	7	2	1	<10	<10	1	0	0	0	0	10

DATE	TOTAL COBALT (CO) (UG/L)	SUSPENDED COBALT (CO) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DEPOSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	SUSPENDED COPPER (CU) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DEPOSITS (UG/G)	TOTAL LEAD (PB) (UG/L)	SUSPENDED LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DEPOSITS (UG/G)
JULY 13...	<25	<25	0	<2	30	21	9	0	100	100	0	<5

DATE	TOTAL MERCURY (HG) (UG/L)	SUSPENDED MERCURY (HG) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DEPOSITS (UG/G)	TOTAL SELENIUM (SE) (UG/L)	SUSPENDED SELENIUM (SE) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	TOTAL SELENIUM IN BOTTOM DEPOSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUSPENDED ZINC (ZN) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DEPOSITS (UG/G)
JULY 13...	.1	.1	.0	.0	6	2	4	0	630	620	10	6

07032000 Mississippi River at Memphis, Tenn.--Continued

CHEMICAL ANALYSES, FEBRUARY TO SEPTEMBER 1973

FIELD ANALYSES

DATE	MEAN DAILY DIS- CHARGE (CFS)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)
JULY										
13...	497000	160	0	131	432	8.3	26.0	8.9	108	1.3
AUG.										
14...	317000	160	0	131	404	8.1	28.5	7.0	90	2.0
SEP.										
07...	240000	170	0	139	444	8.2	26.5	7.0	89	1.7

PHYTOPLANKTON ANALYSES

	TOTAL COUNT CELLS/ML	CODOMINANT(S)	% COMPOSITION
July 13, 1973	600	Sphaerocystis schroeteri Cyclotella sp.	57 17

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), FEBRUARY TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT VARYING HOURS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	380	305	304	352	402	358	440
2	---	---	---	---	---	389	307	295	361	391	332	439
3	---	---	---	---	---	397	304	292	364	409	334	455
4	---	---	---	---	---	407	302	288	354	404	342	453
5	---	---	---	---	---	417	300	288	346	406	358	437
6	---	---	---	---	---	430	298	291	340	404	374	433
7	---	---	---	---	---	424	294	289	338	403	385	445
8	---	---	---	---	---	416	296	296	336	405	389	461
9	---	---	---	---	---	407	297	306	340	402	405	460
10	---	---	---	---	---	403	297	306	339	404	402	472
11	---	---	---	---	---	395	300	312	344	413	408	448
12	---	---	---	---	---	400	305	316	346	422	422	455
13	---	---	---	---	---	360	302	317	346	435	429	462
14	---	---	---	---	---	334	307	319	348	439	426	472
15	---	---	---	---	---	319	313	317	351	431	422	476
16	---	---	---	---	---	319	318	319	344	416	433	451
17	---	---	---	---	---	317	325	319	346	404	438	470
18	---	---	---	---	---	313	326	326	350	405	430	457
19	---	---	---	---	---	312	335	326	362	406	416	461
20	---	---	---	---	---	288	333	325	370	399	419	441
21	---	---	---	---	---	312	336	325	380	406	408	453
22	---	---	---	---	---	319	336	328	389	423	412	463
23	---	---	---	---	---	311	328	332	384	440	409	455
24	---	---	---	---	---	306	333	333	385	444	419	459
25	---	---	---	---	---	304	332	338	392	434	401	468
26	---	---	---	---	---	304	333	344	384	426	390	478
27	---	---	---	---	352	302	329	358	370	413	388	480
28	---	---	---	---	367	304	326	368	396	436	400	479
29	---	---	---	---	---	303	316	375	374	452	410	475
30	---	---	---	---	---	305	309	369	383	446	429	465
31	---	---	---	---	---	306	---	355	---	394	430	---
MONTH	---	---	---	---	---	348	315	322	360	417	401	459

07032000 Mississippi River at Memphis, Tenn.--Continued

TEMPERATURE (°C) OF WATER, FEBRUARY TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT VARYING HOURS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	5.5	12.0	15.0	21.0	26.0	27.0	27.0
2	---	---	---	---	---	5.5	13.0	16.0	21.0	26.0	26.0	26.0
3	---	---	---	---	---	5.5	13.0	16.0	21.0	26.0	26.0	26.0
4	---	---	---	---	---	6.0	12.0	17.0	22.0	27.0	26.0	27.0
5	---	---	---	---	---	7.0	12.0	17.0	21.0	27.0	26.0	26.0
6	---	---	---	---	---	7.0	12.0	17.0	22.0	27.0	26.5	26.0
7	---	---	---	---	---	8.0	11.0	17.0	22.0	27.0	26.5	25.0
8	---	---	---	---	---	8.0	12.0	18.0	22.0	27.0	27.0	26.0
9	---	---	---	---	---	9.0	11.0	19.0	22.0	27.0	27.0	26.5
10	---	---	---	---	---	10.0	10.0	19.0	23.0	27.5	26.0	27.0
11	---	---	---	---	---	10.0	11.0	19.0	24.0	27.5	26.5	26.0
12	---	---	---	---	---	10.0	11.0	19.0	24.0	26.5	27.5	25.0
13	---	---	---	---	---	11.0	11.0	19.0	24.0	27.0	26.0	25.5
14	---	---	---	---	---	11.0	11.0	19.0	24.5	27.0	26.0	25.0
15	---	---	---	---	---	11.0	12.0	18.0	25.0	27.5	26.5	24.0
16	---	---	---	---	---	11.0	13.0	18.0	25.0	27.0	26.0	24.0
17	---	---	---	---	---	11.0	13.0	17.0	25.0	27.0	27.0	24.0
18	---	---	---	---	---	12.0	14.0	17.0	26.0	27.5	27.0	23.0
19	---	---	---	---	---	12.0	14.0	19.0	26.0	27.5	27.0	22.0
20	---	---	---	---	---	11.0	15.0	19.0	26.0	27.5	27.5	21.0
21	---	---	---	---	---	10.0	15.0	20.0	26.0	28.0	26.0	22.0
22	---	---	---	---	---	11.0	15.0	20.0	26.0	28.0	26.0	22.0
23	---	---	---	---	---	12.0	15.5	21.0	26.0	28.0	26.0	22.0
24	---	---	---	---	---	12.0	16.0	20.0	26.0	28.0	25.0	23.0
25	---	---	---	---	---	12.0	15.5	21.0	26.0	29.0	25.0	23.0
26	---	---	---	---	---	11.0	16.0	22.0	26.0	28.0	26.0	23.0
27	---	---	---	---	5.5	11.0	15.0	20.0	26.0	28.0	27.0	24.0
28	---	---	---	---	5.5	12.0	15.0	20.0	26.0	27.0	27.0	23.0
29	---	---	---	---	---	12.0	15.0	20.0	26.0	28.0	27.0	23.0
30	---	---	---	---	---	13.0	16.0	21.0	26.0	27.0	27.0	23.0
31	---	---	---	---	---	14.0	---	20.0	---	27.0	27.0	---
MONTH	---	---	---	---	---	10.0	13.0	18.5	24.0	27.5	26.5	24.5

SUSPENDED-SEDIMENT FOR SELECTED DAYS

DATE	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
JULY			
13...	113	152000	--
AUG.			
14...	161	138000	96
SEP.			
07...	59	38200	93

07040100 St. Francis River at St. Francis, Ark.

LOCATION.--Lat 36°27'20", long 90°08'13", in sec.18, T.21 N., R.9 E., Clay County, at gaging station at bridge on U.S. Highway 62 at St. Francis, and at mile 229 (368.5 km).

DRAINAGE AREA.--1,772 mi² (4,589 km²).

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1973.

REMARKS.--Discharge obtained from rating curves furnished by Corps of Engineers, Memphis, Tenn. Additional analyses furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.										
10...	472	9.0	100	60	21	8.7	3.7	1.8	110	0
DEC.										
06...	3520	6.8	120	60	13	5.8	2.7	2.6	60	0
FEB.										
22...	2700	6.5	50	50	15	7.9	3.5	1.4	74	0
APR.										
20...	10000	4.0	160	20	8.0	4.5	2.7	1.8	44	0
JUNE										
22...	5900	5.1	120	30	11	5.0	1.6	1.5	48	0
AUG.										
15...	448	8.1	210	80	20	9.7	3.0	1.8	112	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS_ SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT.									
10...	90	8.5	3.2	.0	.20	--	--	--	--
DEC.									
06...	49	13	3.2	.1	.27	--	--	--	--
FEB.									
22...	61	12	3.5	.1	.36	--	--	--	--
APR.									
20...	36	8.4	1.6	.0	.14	--	--	--	--
JUNE									
22...	39	7.7	2.1	.1	.16	--	.00	.0	--
AUG.									
15...	92	7.6	3.1	.2	.28	.01	--	--	.29

DATE	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
OCT.									
10...	.02	.30	.04	110	.15	140	88	0	8
DEC.									
06...	.06	.66	.12	83	.11	789	56	8	9
FEB.									
22...	.00	.00	.25	81	.11	590	70	10	10
APR.									
20...	.01	.36	.24	55	.07	1490	38	2	13
JUNE									
22...	.04	.41	.12	66	.09	1050	48	9	7
AUG.									
15...	.05	.51	.07	114	.16	138	90	0	7

07040100 St. Francis River at St. Francis, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT. 10...	.2	193	7.6	17.5	20	10	4.4	130	180
DEC. 06...	.2	136	7.1	5.5	100	18	7.6	140	100
FEB. 22...	.2	155	7.3	4.5	5	0	5.9	16	20
APR. 20...	.2	97	7.0	16.0	50	9	7.0	1900	14000
JUNE 22...	.1	108	7.1	24.0	30	7	6.1	100	200
AUG. 15...	.1	202	7.7	24.0	10	13	3.6	80	160

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)
OCT. 10...	.00	.0	.00	.00	.00	.00	.00
APR. 20...	.00	.0	.00	.00	.00	.00	.00
JUNE 22...	.00	.0	.00	.00	.00	.00	.0[illegible]
AUG. 15...	.00	.0	.00	.00	.00	.01	.00

DATE	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT. 10...	.00	.00	.00	.0	.04	.01	.04
APR. 20...	.00	.00	.00	.0	.00	.00	.00
JUNE 22...	.00	.00	.00	.0	.00	.01	.00
AUG. 15...	.00	.00	.00	.0	.00	.00	.00

07040100 St. Francis River at St. Francis, Ark.--Continued

ADDITIONAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS $CACO_3$ (MG/L)	DIS-SOLVED SULFATE (SO_4)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
JAN.										
30...	--	770	115	7.0	35	8	4	.50	.13	104
FEB.										
13...	--	--	--	--	53	--	4	--	--	--
MAR.										
21...	--	--	--	--	32	--	4	--	--	--
APR.										
04...	--	--	--	--	45	--	4	--	--	--
16...	--	--	--	--	45	--	5	--	--	--
MAY										
01...	--	930	130	3.0	29	8	3	.36	.08	96
15...	--	--	--	--	36	--	2	--	--	--
JUNE										
20...	--	--	--	--	46	--	3	--	--	--
JULY										
17...	--	--	--	--	72	--	5	--	--	--
AUG.										
15...	--	--	--	--	92	--	5	--	--	--
21...	--	1230	424	10.0	93	8	5	.60	.06	121
SEP.										
05...	--	--	--	--	120	--	8	--	--	--
17...	--	--	--	--	110	--	5	--	--	--

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS $CACO_3$ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)
JAN.										
30...	91	195	50	22	101	7.4	8.0	80	100	11.7
FEB.										
13...	--	--	--	--	137	7.6	5.0	--	70	11.2
MAR.										
21...	--	--	--	--	85	7.1	12.0	--	100	9.2
APR.										
04...	--	--	--	--	111	7.4	12.0	--	70	9.5
16...	--	--	--	--	117	7.5	16.0	--	45	10.3
MAY										
01...	86	182	32	18	71	7.0	19.0	80	55	8.0
15...	--	--	--	--	90	7.2	21.0	--	45	8.3
JUNE										
20...	--	--	--	--	100	7.4	23.0	--	25	6.3
JULY										
17...	--	--	--	--	161	7.6	26.0	--	50	6.3
AUG.										
15...	--	--	--	--	186	7.0	23.0	--	45	7.4
21...	89	210	94	52	186	8.0	26.0	3	30	8.5
SEP.										
05...	--	--	--	--	241	8.0	26.0	--	50	7.4
17...	--	--	--	--	207	8.0	21.0	--	39	8.4

07040100 St. Francis River at St. Francis, Ark.--Continued

ADDITIONAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR 6) (UG/L)
OCT.									
31...	--	--	--	--	>1000	--	--	--	--
JAN.									
30...	98	1.4	--	--	--	<3	3	<100	<5
FEB.									
13...	87	1.3	--	--	--	--	--	--	--
MAR.									
21...	85	.9	--	--	--	--	--	--	--
APR.									
04...	88	1.1	--	--	--	--	--	--	--
16...	103	--	--	--	--	--	--	--	--
MAY									
01...	85	1.1	--	--	--	<3	<5	<10	--
15...	92	1.7	--	--	--	--	--	--	--
JUNE									
20...	73	1.4	<12	275	--	--	--	--	--
JULY									
17...	77	1.8	188	660	--	--	--	--	--
AUG.									
15...	85	1.0	8	218	--	--	--	--	--
21...	104	2.5	48	160	152	<3	<2	<15	--
SEP.									
05...	90	1.5	<6	125	--	--	--	--	--
17...	93	2.3	<5	<12	--	--	--	--	--

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
JAN.					
30...	100	47	<1.1	<50	49
MAY					
01...	140	23	<.5	16	67
AUG.					
21...	80	71	--	30	12

07046500 Right Hand Chute of Little River at Big Lake Outlet, near Manila, Ark.

LOCATION.--Lat 35°51'00", long 90°07'40", in sec.10, T.14 N., R.9 E., Mississippi County, at Corps of Engineers gaging station at bridge on State Highway 18, 3.5 mi (5.6 km) southeast of Manila, and at mile 23.0 (37.0 km).

DRAINAGE AREA.--2,084 mi² (5,398 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
04...	2200	--	--	--	--	63	--	11	--	--	--	--
16...	710	--	--	--	--	96	--	10	--	--	--	--
31...	2760	1200	100	19	8.0	60	13	8.5	.50	.13	136	37
NOV.												
14...	12200	--	--	--	--	61	--	3.5	--	--	--	--
29...	3350	--	--	--	--	101	--	10	--	--	--	--
JAN.												
03...	3570	--	--	--	--	126	--	10	--	--	--	--
15...	2020	--	--	--	--	108	--	11	--	--	--	--
30...	9000	1470	120	19	6.0	61	2.0	6.0	1.6	.29	176	79
FEB.												
13...	6620	--	--	--	--	61	--	6.0	--	--	--	--
MAR.												
08...	2310	--	--	--	--	147	--	13	--	--	--	--
21...	12300	--	--	--	--	46	--	5.0	--	--	--	--
APR.												
04...	11000	--	--	--	--	37	--	5.0	--	--	--	--
16...	--	--	--	--	--	85	--	7.0	--	--	--	--
MAY												
01...	10500	1250	120	12	4.0	40	7.0	4.0	.53	.20	124	50
15...	11200	--	--	--	--	60	--	5.5	--	--	--	--
JUNE												
20...	4320	--	--	--	--	76	--	7.5	--	--	--	--
JULY												
17...	1330	--	--	--	--	163	--	15	--	--	--	--
AUG.												
15...	--	--	--	--	--	144	--	14	--	--	--	--
21...	--	1430	331	29	7.0	97	11	15	.20	.11	160	60
SEP.												
05...	--	--	--	--	--	163	--	15	--	--	--	--
17...	--	--	--	--	--	154	--	13	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
04...	--	--	--	267	7.6	19.0	--	60	7.1	76	3.2	--
16...	--	--	--	273	7.4	19.0	--	60	7.5	80	1.9	--
31...	173	80	40	163	7.3	16.0	100	68	7.6	76	1.9	6600
NOV.												
14...	--	--	--	98	7.2	14.0	--	90	7.5	72	1.0	--
29...	--	--	--	263	7.2	7.0	--	25	[illegible].8	72	1.1	--
JAN.												
03...	--	--	--	280	7.7	6.0	--	40	10.0	81	.8	--
15...	--	--	--	259	7.3	4.0	--	70	11.1	85	1.5	--
30...	255	72	40	159	7.5	7.0	160	160	10.8	89	1.4	367
FEB.												
13...	--	--	--	165	7.6	4.0	--	200	11.5	88	2.4	--
MAR.												
08...	--	--	--	336	7.8	15.0	--	665	9.6	96	2.5	--
21...	--	--	--	107	7.1	14.0	--	200	7.7	76	2.0	--
APR.												
04...	--	--	--	90	7.2	14.0	--	390	7.7	76	1.6	1100
16...	--	--	--	219	7.8	17.0	--	100	8.9	93	--	500
MAY												
01...	102	60	30	94	7.1	19.0	80	70	7.5	80	2.0	900
15...	--	--	--	159	7.4	19.0	--	135	6.6	70	1.8	1900
JUNE												
20...	--	--	--	144	7.6	29.0	--	150	5.4	69	2.4	--
JULY												
17...	--	--	--	320	7.8	27.0	--	20	4.1	52	1.4	110
AUG.												
15...	--	--	--	310	8.0	27.0	--	25	4.7	58	1.9	705
21...	200	100	72	224	7.7	27.0	5	34	4.3	54	1.5	270
SEP.												
05...	--	--	--	356	7.8	23.0	--	10	2.5	30	1.6	325
17...	--	--	--	313	7.9	23.0	--	25	5.0	57	1.2	107

07046500 Right Hand Chute of Little River at Big Lake Outlet, near Manila, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
04...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
31...	>1000	>600	<3	2	<100	<5	20	10	<.1	<50	9
NOV.											
14...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
03...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	10	150	<3	9	<100	<5	70	<2	<.5	<50	10
FEB.											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
05...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	293	--	--	--	--	--	--	--	--	--	--
16...	30	--	--	--	--	--	--	--	--	--	--
MAY											
01...	90	530	6	<5	<10	--	6	6	<.3	11	9
15...	50	--	--	--	--	--	--	--	--	--	--
JUNE											
20...	--	--	--	--	--	--	--	--	--	--	--
JULY											
17...	6	--	--	--	--	--	--	--	--	--	--
AUG.											
15...	220	--	--	--	--	--	--	--	--	--	--
21...	27	2530	11	<2	<15	--	<10	62	--	12	5
SEP.											
05...	10	--	--	--	--	--	--	--	--	--	--
17...	17	--	--	--	--	--	--	--	--	--	--

07046535 Pemiscot Bayou near Yarbro, Ark.

LOCATION.--Lat 35°59'30", long 89°52'26", in NE¼SE¼ sec.23, T.16 N., R.11 E., Mississippi County, at bridge on service road 50 ft (15 m) downstream from Interstate Highway 55, 2.0 mi (3.2 km) northeast of Yarbro, and 4.1 mi (6.6 km) downstream from Crooked Lake Bayou.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
04...	50	--	--	--	--	116	--	5.0	--	--	--	--
16...	46	--	--	--	--	256	--	4.5	--	--	--	--
31...	--	6400	330	14	5.0	36	11	2.5	2.7	.05	146	224
NOV.												
14...	110	--	--	--	--	99	--	1.5	--	--	--	--
29...	68	--	--	--	--	267	--	4.0	--	--	--	--
DEC.												
13...	64	--	--	--	--	38	--	1.5	--	--	--	--
JAN.												
03...	64	--	--	--	--	256	--	4.0	--	--	--	--
15...	123	--	--	--	--	256	--	5.0	--	--	--	--
30...	110	4740	355	37	12	131	<1.0	5.0	3.6	.63	269	292
FEB.												
13...	108	--	--	--	--	159	--	4.5	--	--	--	--
MAR.												
06...	88	--	--	--	--	278	--	4.5	--	--	--	--
21...	98	--	--	--	--	270	--	5.0	--	--	--	--
APR.												
04...	59	--	--	--	--	179	--	5.0	--	--	--	--
16...	83	--	--	--	--	235	--	4.5	--	--	--	--
MAY												
01...	10	10170	850	39	14	131	4.0	3.5	.99	.41	269	1112
15...	--	--	--	--	--	296	--	4.0	--	--	--	--
JUNE												
20...	26	--	--	--	--	321	--	5.0	--	--	--	--
JULY												
17...	20	--	--	--	--	334	--	4.5	--	--	--	--
AUG.												
15...	98	--	--	--	--	316	--	5.0	--	--	--	--
21...	64	2400	770	82	20	330	15	5.0	.22	.15	375	98
SEP.												
05...	102	--	--	--	--	341	--	5.0	--	--	--	--
17...	68	--	--	--	--	338	--	5.0	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
04...	--	--	--	551	7.8	20.0	--	47	8.5	93	1.7	--
16...	--	--	--	570	7.7	20.0	--	65	12.4	135	3.6	--
31...	370	56	36	111	7.1	19.0	160	120	7.4	79	3.8	--
NOV.												
14...	--	--	--	188	7.3	18.0	--	800	7.5	79	5.8	--
29...	--	--	--	476	7.3	10.0	--	70	7.8	69	.4	--
DEC.												
13...	--	--	--	92	7.2	3.0	--	200	11.1	83	1.9	--
JAN.												
03...	--	--	--	654	7.5	5.0	--	95	8.6	68	1.6	--
15...	--	--	--	495	7.4	9.0	--	160	--	--	--	--
30...	541	160	92	265	7.5	8.0	200	410	9.6	81	2.1	2500
FEB.												
13...	--	--	--	321	7.7	6.0	--	390	9.2	76	1.1	--
MAR.												
06...	--	--	--	521	7.7	16.0	--	220	7.3	73	1.7	--
21...	--	--	--	492	7.7	14.0	--	140	6.2	60	.9	--
APR.												
04...	--	--	--	439	7.3	14.0	--	270	7.3	70	1.7	1750
16...	--	--	--	461	7.8	17.0	--	380	7.0	73	--	5200
MAY												
01...	1361	160	98	265	7.4	19.0	160	550	7.0	76	5.9	80000
15...	--	--	--	557	7.7	23.0	--	39	7.0	81	1.6	<200
JUNE												
20...	--	--	--	574	7.8	29.0	--	58	7.8	101	4.6	--
JULY												
17...	--	--	--	578	8.0	27.0	--	45	8.7	108	2.2	100
AUG.												
15...	--	--	--	560	8.1	28.0	--	32	10.3	132	4.3	240
21...	473	320	206	563	7.9	29.0	4	35	10.6	136	3.0	240
SEP.												
05...	--	--	--	584	7.9	27.0	--	35	7.4	92	1.3	400
17...	--	--	--	569	8.0	21.0	--	25	9.5	106	1.5	10

07046155 Pemiscot Bayou near Yarbro, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
04...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
31...	--	6000	31	2	<100	<5	120	20	<.1	<50	13
NOV.											
14...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
03...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	70	733	3	4	<100	5	80	17	<.5	<50	67
FEB.											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
06...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	143	--	--	--	--	--	--	--	--	--	--
16...	600	--	--	--	--	--	--	--	--	--	--
MAY											
01...	1900	7000	15	<5	<10	--	80	41	<.5	40	110
15...	<2	--	--	--	--	--	--	--	--	--	--
JUNE											
20...	--	--	--	--	--	--	--	--	--	--	--
JULY											
17...	30	--	--	--	--	--	--	--	--	--	--
AUG.											
15...	10	--	--	--	--	--	--	--	--	--	--
21...	30	1500	12	<2	<15	--	59	60	--	37	29
SEP.											
05...	25	--	--	--	--	--	--	--	--	--	--
17...	<5	--	--	--	--	--	--	--	--	--	--

07047500 St. Francis River at Marked Tree, Ark.

LOCATION.--Lat 35°31'20", long 90°25'27", in SE¼NW¼ sec.2, T.10 N., R.6 E., Poinsett County, at gaging station near left bank on downstream side of bridge on U.S. Highway 63 at Marked Tree, 5.4 mi (8.7 km) downstream from Little River, 7.6 mi (12.2 km) downstream from dam of Poinsett County Drainage District 7, and at mile 147.0 (236.5 km).

DRAINAGE AREA.--5,148 mi² (13,333 km²), includes that of floodway.

PERIOD OF RECORD.--Chemical analyses: October 1941 to September 1946, November 1949 to September 1955, October 1961 to September 1966, October 1967 to June 1973 (discontinued).

CHEMICAL ANALYSES, OCTOBER 1972 TO JUNE 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)
OCT.										
11...	904	0	0	148	0	121	16	6.6	.22	1.0
NOV.										
14...	2020	--	--	100	0	82	13	2.6	.32	1.4
DEC.										
19...	1720	--	--	142	0	116	25	4.3	.23	1.0
JAN.										
16...	2110	--	--	188	0	154	20	5.6	.16	.70
FEB.										
27...	2710	--	--	196	0	161	26	6.8	.18	.80
MAR.										
27...	2620	--	--	160	0	131	18	5.0	.59	2.6
MAY										
02...	4040	200	30	64	0	52	12	5.4	.16	.70
JUNE										
08...	2320	--	--	148	0	121	16	3.2	.45	2.0

DATE	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT.										
11...	.02	.0	.13	.17	.58	.23	76	130	6	266
NOV.										
14...	.01	.0	.13	.17	.58	.42	91	88	6	231
DEC.										
19...	.01	.0	.13	.17	.50	.30	92	130	10	273
JAN.										
16...	.00	.0	.31	.40	.27	.20	68	160	6	352
FEB.										
27...	.01	.0	.13	.17	.51	.16	67	172	10	304
MAR.										
27...	--	--	.27	.35	.31	.20	115	140	0	296
MAY										
02...	.04	.1	.05	.06	.20	1.3	710	60	0	150
JUNE										
08...	.00	.0	.01	.01	.06	.07	176	130	7	277

DATE	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
11...	7.7	60	70	41	2.5	4.7	2600	730	570	11
NOV.										
14...	7.5	80	110	16	3.6	5.1	9500	1000	2200	--
DEC.										
19...	7.0	100	120	15	2.0	3.6	9200	667	300	--
JAN.										
16...	7.7	--	--	16	1.0	6.6	<1000	<100	900	12
FEB.										
27...	7.9	--	--	3	2.3	3.9	<400	<56	470	--
MAR.										
27...	7.5	--	--	16	1.0	8.1	2600	1000	1300	--
MAY										
02...	7.3	--	--	16	1.9	5.1	--	--	--	--
JUNE										
08...	7.5	--	--	1	1.0	7.5	1700	<136	<90	--

07047500 St. Francis River at Marked Tree, Ark.--Continued

CHEMICAL ANALYSES, OCTOBER 1972 TO JUNE 1973

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)
OCT.										
11...	--	.0	--	32	--	31	--	31	--	69
MAY										
24...	.00	--	.0	--	.05	--	.00	--	.00	--
JUNE										
08...	.00	--	.0	--	.00	--	.01	--	.01	--

DATE	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)
OCT.										
11...	--	--	.0	--	.0	--	.0	--	.0	--
MAY										
24...	.01	.01	--	.01	--	.00	--	.00	--	.00
JUNE										
08...	.02	.02	--	.00	--	.00	--	.00	--	.00

DATE	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
OCT.									
11...	.0	--	--	--	--	0	--	--	--
MAY									
24...	--	.00	.00	.00	.0	--	.00	.02	.05
JUNE									
08...	--	.00	.00	.00	.0	--	.00	.01	.01

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.										
11...	7	0	0	0	6	0	.5	0	--	13
MAY										
02...	<10	1	20	1	10	1	<.5	6	2	30

FIELD ANALYSES

DATE	MEAN DAILY DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
11...	906	--	--	--	284	8.3	20.5	7.3	81	--
NOV.										
14...	2820	--	--	--	186	--	12.0	7.2	67	--
DEC.										
19...	1720	136	0	112	280	7.4	6.5	10.0	77	8.7
JAN.										
16...	2110	152	0	125	336	7.1	3.5	12.6	79	19
FEB.										
27...	2710	--	--	--	365	8.0	9.5	9.8	85	--
MAR.										
27...	2620	158	0	130	288	7.5	12.0	8.6	80	8.0
MAY										
02...	6060	56	0	46	145	6.6	18.0	7.0	73	23
24...	--	--	--	--	--	--	23.5	--	--	--

07047800 St. Francis River at Parkin, Ark.
(National stream-quality accounting and pesticide station)

LOCATION.--Lat 35°16'23", long 90°33'33", in NE¼SE¼ sec.33, T.8 N., R.5 E., Cross County, at gaging station at bridge on U.S. Highway 64 at Parkin, 1.1 mi (1.8 km) downstream from Tyronza River, and at mile 102.0 (164.1 km).

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 mi^2 (16,770 km^2).

PERIOD OF RECORD.--Chemical analyses: January to September 1973.
Water temperatures: January to September 1973.

EXTREMES.--January to September 1973:
Specific conductance: Maximum daily, 489 micromhos Sept. 28; minimum daily, 55 micromhos Apr. 25.
Water temperature: Maximum, 30.0°C July 24-25; minimum, 3.0°C Feb. 11-12.

REMARKS.--The greater part of St. Francis River floodflow is diverted through St. Francis River floodway at lock and dam about 4 mi (6.4 km) northwest of Marked Tree, and is not included in records for this station. Diverted flow is included in records for St. Francis Bay at Riverfront and returns to the St. Francis River below Marianna (see station 07047900).

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	MEAN DAILY DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	SUSPENDED IRON (FE) (UG/L)	DISSOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DEPOSITS (UG/G)	TOTAL MANGANESE (MN) (UG/L)	SUSPENDED MANGANESE (MN) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	TOTAL MANGANESE IN BOTTOM DEPOSITS (UG/G)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)
FEB. 27...	3460	15	1100	--	10	--	120	--	10	--	46	12
MAR. 29...	5030	12	--	--	30	--	--	--	10	--	37	9.1
MAY 10...	11500	.6	--	--	--	--	--	--	--	--	9.0	2.3
JUNE 08...	3210	13	7800	7700	60	3100	390	380	10	250	37	9.6
JULY 10...	2800	17	--	--	--	--	--	--	--	--	54	13
AUG. 07...	1770	17	--	--	--	--	--	--	--	--	48	13
31...	1290	25	4000	4000	0	--	420	390	30	--	57	15

DATE	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)
FEB. 27...	8.5	2.9	20	6.7	.3	.56	--	--	--	.25	213	.29
MAR. 29...	6.4	3.5	18	4.3	.3	1.2	--	--	--	.32	169	.23
MAY 10...	1.5	2.5	6.0	2.4	.1	.61	.15	.76	--	.82	54	.07
JUNE 08...	5.7	2.4	15	4.4	.1	.37	.01	.38	2.0	.53	195	.27
JULY 10...	9.2	2.5	18	9.0	.3	.26	.01	.27	--	.34	246	.33
AUG. 07...	9.1	2.5	19	7.8	.5	.26	.01	.27	--	.29	224	.30
31...	9.9	2.6	21	7.1	.3	.07	.02	.09	--	.31	277	.38

DATE	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO	TURBIDITY (MG/L)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MATERIAL (C) (G/KG)
FEB. 27...	1990	160	10	.3	60	--	--	E550	E50	210	--	--
MAR. 29...	2300	130	9	.2	70	--	--	2300	E170	1100	--	--
MAY 10...	1680	32	9	.1	--	300	--	7200	E400	E3600	--	--
JUNE 08...	1690	130	8	.2	--	100	2.1	1300	E56	E30	10	.0
JULY 10...	1860	190	9	.3	--	50	--	2000	E130	270	--	--
AUG. 07...	1070	170	10	.3	--	50	2.4	E400	E67	E160	--	--
31...	965	200	9	.3	--	60	3.6	--	--	--	--	--

07047800 St. Francis River at Parkin, Ark.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS-PENDED ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE-POSITS (UG/G)	TOTAL CAD-MIUM (CD) (UG/L)	SUS-PENDED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL CHRO-MIUM (CR) (UG/L)	SUS-PENDED CHRO-MIUM (CR) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM IN BOTTOM DE-POSITS (UG/G)
FEB.												
27...	<10	--	<10	--	4	--	1	--	<10	--	<10	--
JUNE												
08...	6	1	5	5	<10	<10	0	0	10	10	0	2
AUG.												
31...	4	3	1	--	<10	<10	0	--	0	0	0	--

DATE	TOTAL COBALT (CO) (UG/L)	SUS-PENDED COBALT (CO) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE-POSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS-PENDED COPPER (CU) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE-POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS-PENDED LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE-POSITS (UG/G)
FEB.												
27...	10	--	6	--	48	--	12	--	48	--	0	--
JUNE												
08...	<25	<25	0	2	30	22	8	1	<50	<50	0	0
AUG.												
31...	<25	<25	0	--	10	4	6	--	<50	<50	1	--

DATE	TOTAL MERCURY (HG) (UG/L)	SUS-PENDED MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE-POSITS (UG/G)	TOTAL SELE-NIUM (SE) (UG/L)	SUS-PENDED SELE-NIUM (SE) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	TOTAL SELE-NIUM IN BOTTOM DE-POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS-PENDED ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE-POSITS (UG/G)
FEB.												
27...	1.5	--	.0	--	1	--	1	--	50	--	20	--
JUNE												
08...	.0	.0	.0	.0	4	0	6	5	110	100	10	10
AUG.												
31...	.1	.1	.0	--	9	4	5	--	50	50	0	--

PHYTOPLANKTON ANALYSES

DATE	TOTAL COUNT CELLS/ML	CODOMINANT(S)	% COMPOSITION
Feb. 27, 1973	3,000	*Chlamydomonas* sp.	35
		Ankistrodesmus sp.	30
		Scenedesmus sp.	15
Mar. 29, 1973	1,700	*Pandorina* sp.	32
		Scenedesmus sp.	21
		Ulothrix sp.	18
May 10, 1973	640	*Oscillatoria* sp.	73
June 8, 1973	4,100	*Pandorina* sp.	38
		Anabaena sp.	29
July 10, 1973	3,100	*Scenedesmus* sp.	36
		Crucigenia sp.	24
		Ankistrodesmus sp.	11

BENTHIC INVERTEBRATE ANALYSES

JULY 10, 1973, COLLECTED BY MULTIPLE-PLATE SAMPLER ATTACHED TO HIGHWAY 64 BRIDGE
JUNE 8, 1973, AND REMOVED JULY 10, 1973

TAXA	NO.	BIOMASS g/m²
Amphipoda	1	1.3
Ephemeroptera	76	
Frichoptera	5	
Diptera (Chironomidae)	1	

07047800 St. Francis River at Parkin, Ark.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

FIELD ANALYSES

DATE	MEAN DAILY DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
FEB.										
27...	3460	182	2	152	354	8.4	9.0	8.8	76	1.2
MAR.										
29...	5030	148	0	121	300	8.0	11.5	--	--	2.4
MAY										
10...	11500	40	0	33	77	7.5	21.0	6.0	67	2.0
JUNE										
08...	3210	156	0	128	291	7.6	25.0	5.2	63	6.3
JULY										
10...	2800	214	0	176	379	--	29.0	5.4	70	--
AUG.										
07...	1770	198	0	162	358	8.3	27.0	5.4	68	1.6
31...	1290	240	0	197	404	8.2	29.0	4.7	62	2.4

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), JANUARY TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT VARYING HOURS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	158	373	206	82	150	368	429	427
2	---	---	---	---	173	377	169	96	178	370	440	431
3	---	---	---	---	197	378	204	86	229	377	383	436
4	---	---	---	---	210	382	166	82	277	378	356	451
5	---	---	---	---	221	388	139	85	252	392	382	451
6	---	---	---	---	247	377	145	78	268	323	376	434
7	---	---	---	---	275	353	179	79	286	348	383	212
8	---	---	---	---	147	340	229	82	290	377	402	132
9	---	---	---	---	110	335	256	85	293	389	413	113
10	---	---	---	---	100	340	267	86	296	396	416	130
11	---	---	---	---	93	149	304	90	293	402	420	165
12	---	---	---	---	83	114	284	92	301	429	437	207
13	---	---	---	---	100	107	275	121	249	335	434	254
14	---	---	---	---	134	85	278	132	202	291	380	296
15	---	---	---	---	136	78	288	152	182	320	360	308
16	---	---	---	---	172	86	289	177	192	339	260	332
17	---	---	---	---	195	115	303	197	225	360	286	359
18	---	---	---	---	223	136	325	213	253	382	330	378
19	---	---	---	---	248	137	317	226	284	409	331	390
20	---	---	---	---	275	152	121	251	292	388	336	422
21	---	---	---	---	298	184	89	280	306	392	345	438
22	---	---	---	---	319	240	70	306	316	313	350	429
23	---	---	---	---	340	217	61	327	329	344	354	457
24	---	---	---	134	345	238	58	297	332	347	360	465
25	---	---	---	106	350	245	55	324	353	388	372	469
26	---	---	---	115	345	250	58	294	357	393	388	480
27	---	---	---	166	351	231	62	283	364	397	385	481
28	---	---	---	162	368	291	65	254	349	347	396	489
29	---	---	---	145	---	280	69	208	356	400	408	439
30	---	---	---	136	---	275	80	188	359	412	406	396
31	---	---	---	168	---	254	---	135	---	422	419	---
MONTH	---	---	---	---	222	242	180	174	280	372	379	362

07047800 St. Francis River at Parkin, Ark.--Continued

TEMPERATURE (°C) OF WATER, JANUARY TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT VARYING HOURS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	6.5	10.5	16.0	17.5	23.0	27.5	29.0	27.5
2	---	---	---	---	7.0	11.5	15.5	19.0	23.5	27.5	27.5	27.0
3	---	---	---	---	7.0	11.0	16.0	18.5	24.5	28.0	27.0	27.0
4	---	---	---	---	9.0	11.0	15.0	19.5	24.0	29.0	27.0	26.0
5	---	---	---	---	9.0	13.5	14.0	19.5	24.0	29.5	27.5	25.5
6	---	---	---	---	9.0	13.5	14.5	19.5	24.5	29.0	27.5	24.5
7	---	---	---	---	8.5	14.5	14.0	19.5	25.0	28.0	28.0	23.5
8	---	---	---	---	7.0	16.0	14.0	20.0	25.0	28.5	29.0	24.5
9	---	---	---	---	4.5	16.5	13.0	21.0	25.5	28.5	29.5	26.0
10	---	---	---	---	3.5	15.5	12.0	21.5	26.0	29.0	28.0	26.5
11	---	---	---	---	3.0	17.5	12.5	21.0	26.5	29.0	28.5	26.5
12	---	---	---	---	3.0	18.0	13.0	20.5	27.0	28.5	28.5	27.0
13	---	---	---	---	3.5	18.0	12.5	22.0	26.0	28.0	29.0	26.5
14	---	---	---	---	5.0	17.5	13.0	21.5	26.0	27.5	28.0	26.0
15	---	---	---	---	5.0	16.5	14.5	21.0	25.0	28.0	27.5	24.5
16	---	---	---	---	5.0	15.0	14.5	21.0	27.0	27.0	27.5	25.0
17	---	---	---	---	5.0	14.0	15.5	21.0	26.5	28.0	28.5	25.0
18	---	---	---	---	4.5	13.0	16.0	21.0	28.0	28.0	28.5	24.5
19	---	---	---	---	5.0	12.0	17.0	21.0	28.5	28.5	29.5	21.0
20	---	---	---	---	6.0	12.5	18.0	21.5	28.0	28.0	28.5	20.5
21	---	---	---	---	7.0	12.0	18.0	22.0	28.0	28.0	28.5	22.5
22	---	---	---	---	7.0	12.5	19.0	23.0	27.5	30.0	27.5	24.0
23	---	---	---	---	8.0	13.5	19.0	23.0	27.0	29.5	27.0	25.0
24	---	---	---	8.0	8.5	14.0	19.5	23.5	26.5	30.0	27.5	23.5
25	---	---	---	7.0	10.5	13.0	20.0	24.0	28.0	30.0	27.0	23.5
26	---	---	---	7.0	10.0	12.5	19.0	23.5	28.5	29.0	28.5	24.0
27	---	---	---	7.5	9.5	12.5	18.0	24.0	28.0	29.0	28.0	24.0
28	---	---	---	7.0	10.5	13.0	17.0	22.0	28.0	28.0	28.0	24.0
29	---	---	---	5.5	---	13.5	17.0	22.0	27.5	29.5	28.0	26.0
30	---	---	---	5.5	---	14.5	18.0	22.0	26.0	28.5	27.5	24.5
31	---	---	---	6.0	---	15.5	---	22.5	---	29.5	27.5	---
MONTH	---	---	---	---	6.5	14.0	16.0	21.0	26.5	28.5	28.0	25.0

SUSPENDED-SEDIMENT FOR SELECTED DAYS

DATE	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB.			
27...	69	665	--
MAR.			
29...	29	396	--
JULY			
10...	53	401	--
AUG.			
07...	133	636	97
31...	133	463	98

07047900 St. Francis Bay at Riverfront, Ark.
(National stream-quality accounting station)

LOCATION.--Lat 35°15'34", long 90°40'48", in W½ sec.4, T.7 N., R.4 E., Cross County, at gaging station at bridge on U.S. Highway 64 at Riverfront, 7 mi (11.3 km) west of Parkin.

DRAINAGE AREA.--Indeterminate. Total drainage area of St. Francis River and St. Francis Bay, 6,475 mi² (16,770 km²).

PERIOD OF RECORD.--Chemical analyses: January to September 1973.

REMARKS.--Part of the flow at this station is diverted from St. Francis River at lock and dam about 4 mi (6.4 km) northwest of Marked Tree (see station 07047800).

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	SUS-PENDED IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON IN BOTTOM DE-POSITS (UG/G)	TOTAL MAN-GANESE (MN) (UG/L)	SUS-PENDED MAN-GANESE (MN) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MANGA-NESE IN BOTTOM DE-POSITS (UG/G)	DIS-SOLVED CAL-CIUM (CA) (MG/L)
FEB.											
26...	7640	8.1	700	--	40	--	130	--	20	--	26
MAR.											
29...	21300	7.6	--	--	100	--	--	--	10	--	18
MAY											
10...	46000	4.8	--	--	--	--	--	--	--	--	11
JUNE											
08...	17000	7.3	6000	5900	20	8500	290	280	10	330	25
JULY											
09...	5470	9.9	--	--	--	--	--	--	--	--	22
AUG.											
06...	3160	14	--	--	--	--	--	--	--	--	38
30...	1590	22	2900	2900	0	--	450	440	10	--	45

DATE	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)
FEB.											
26...	8.5	5.6	2.2	114	0	93	14	4.0	.3	.32	--
MAR.											
29...	5.2	3.9	2.5	72	0	59	9.8	2.9	.2	.56	--
MAY											
10...	3.5	2.5	2.2	--	--	--	6.6	3.0	.1	.51	.03
JUNE											
08...	5.7	3.8	2.0	--	--	--	.0	.0	.1	.66	.01
JULY											
09...	6.9	3.6	1.8	--	--	--	8.6	3.1	.2	.22	.01
AUG.											
06...	11	6.9	2.0	--	--	--	14	5.6	.5	.06	.01
30...	12	8.0	2.1	--	--	--	17	5.9	.2	.10	.01

DATE	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE IN BOT. DEP. (MG/KG)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO
FEB.										
26...	--	--	.16	117	.16	2410	100	6	10	.2
MAR.										
29...	--	--	.23	92	.13	5290	66	8	11	.2
MAY										
10...	.54	--	.33	72	.10	8940	42	--	11	.2
JUNE										
08...	.67	2.0	.41	114	.16	5230	86	--	9	.2
JULY										
09...	.23	--	.27	117	.16	1730	83	--	8	.2
AUG.										
06...	.07	--	.23	183	.25	1560	140	--	10	.3
30...	.11	--	.23	227	.31	975	160	--	10	.3

07047900 St. Francis Bay at Riverfront, Ark.--Continued

CHEMICAL ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	PH (UNITS)	TUR- BID- ITY (MG/L)	TUR- BID- ITY (JTU)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)	ORGANIC CARBON IN BED MA- TERIAL (C) (G/KG)
FEB. 26...	7.8	60	--	--	2.9	800	E33	--	--	--
MAR. 29...	7.7	60	--	--	2.3	800	E27	210	--	--
MAY 10...	--	--	90	--	--	1500	<17	--	--	--
JUNE 08...	--	--	90	2.6	--	E275	<11	E50	9.0	10
JULY 09...	--	--	60	--	--	E100	<17	E35	--	--
AUG. 06...	--	--	60	3.0	--	--	--	--	--	--
30...	--	--	60	2.0	--	E420	--	E30	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	SUS- PENDED ARSENIC (AS) (UG/L)	DIS- SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC IN BOTTOM DE- POSITS (UG/G)	TOTAL CAD- MIUM (CD) (UG/L)	SUS- PENDED CAD- MIUM (CD) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	TOTAL CADMIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL CHRO- MIUM (CR) (UG/L)	SUS- PENDED CHRO- MIUM (CR) (UG/L)	DIS- SOLVED CHRO- MIUM (CR) (UG/L)	TOTAL CHRO- MIUM IN BOTTOM DE- POSITS (UG/G)
FEB. 26...	<10	--	<10	--	4	--	2	--	<10	--	<10	--
JUNE 08...	8	8	0	5	<10	<10	0	0	10	10	0	6
AUG. 30...	20	17	3	--	<10	<10	0	--	0	0	0	--

DATE	TOTAL COBALT (CO) (UG/L)	SUS- PENDED COBALT (CO) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	TOTAL COBALT IN BOTTOM DE- POSITS (UG/G)	TOTAL COPPER (CU) (UG/L)	SUS- PENDED COPPER (CU) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	TOTAL COPPER IN BOTTOM DE- POSITS (UG/G)	TOTAL LEAD (PB) (UG/L)	SUS- PENDED LEAD (PB) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	TOTAL LEAD IN BOTTOM DE- POSITS (UG/G)
FEB. 26...	6	--	6	--	80	--	14	--	12	--	1	--
JUNE 08...	<25	<25	0	2	50	39	11	12	<50	<50	0	70
AUG. 30...	<25	<25	0	--	20	12	8	--	<50	<50	0	--

DATE	TOTAL MERCURY (HG) (UG/L)	SUS- PENDED MERCURY (HG) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	TOTAL MERCURY IN BOTTOM DE- POSITS (UG/G)	TOTAL SELE- NIUM (SE) (UG/L)	SUS- PENDED SELE- NIUM (SE) (UG/L)	DIS- SOLVED SELE- NIUM (SE) (UG/L)	TOTAL SELE- NIUM IN BOTTOM DE- POSITS (UG/G)	TOTAL ZINC (ZN) (UG/L)	SUS- PENDED ZINC (ZN) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC IN BOTTOM DE- POSITS (UG/G)
FEB. 26...	.4	--	.1	--	2	--	0	--	50	--	10	--
JUNE 08...	.2	.2	.0	.3	<10	0	9	8	70	60	10	30
AUG. 30...	.0	.0	.0	--	7	2	5	--	110	90	20	--

07047900 St. Francis Bay at Riverfront, Ark.--Continued

PHYTOPLANKTON ANALYSES, JANUARY TO SEPTEMBER 1973

DATE	TOTAL COUNT CELLS/ML	CODOMINANT(S)	% COMPOSITION
Feb. 26, 1973	2,800	*Cyclotella* sp.	38
Mar. 28, 1973	800	*Scenedesmus* sp. *Synedra* sp.	25 25
May 10, 1973	1,700	*Ulothrix* sp. *Synedra* sp.	22 19
June 8, 1973	5,200	*Anacystis* sp. *Ankistrodesmus* sp.	36 29
July 9, 1973	8,600	*Crucigenia* sp. *Scenedesmus* sp.	18 16

FIELD ANALYSES

DATE	MEAN DAILY DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
FEB.										
26...	7640	--	--	--	210	7.5	10.0	8.7	77	--
MAR.										
29...	21300	--	--	--	153	--	11.5	--	--	--
MAY										
10...	46000	46	0	38	95	7.8	21.0	6.3	70	1.2
JUNE										
08...	17000	76	0	62	95	7.4	25.0	5.0	60	4.8
JULY										
09...	5470	98	0	80	182	7.6	29.9	5.3	69	3.9
AUG.										
06...	3160	160	0	131	289	8.2	27.0	8.3	104	1.6
30...	1590	196	0	161	332	8.0	27.5	7.0	90	3.1

SUSPENDED-SEDIMENT FOR SELECTED DAYS

DATE	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
FEB.			
26...	78	1610	--
MAR.			
29...	128	7360	--
JULY			
09...	58	857	--
AUG.			
06...	142	1210	94
30...	120	515	96

07047942 L'Anguille River near Colt, Ark.

LOCATION.--Lat 35°08'40", long 90°52'42", in NE¼NW¼ sec.15, T.6 N., R.2 E., St. Francis County, at gaging station near center of span on downstream side of bridge on State Highway 306, 1.1 mi (1.8 km) downstream from Lick Creek, 3.9 mi (6.3 km) northwest of Colt, and at mile 52.8 (85.0 km).

DRAINAGE AREA.--535 mi² (1,386 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT. 11...	826	7.8	200	70	14	4.5	5.0	0.4	68	0	56	5.6
NOV. 14...	2920	--	--	--	--	--	--	--	52	0	43	--
DEC. 19...	2360	--	--	--	--	--	--	--	--	--	--	--
JAN. 16...	610	--	--	--	--	--	--	--	--	--	--	--
FEB. 27...	526	--	--	--	--	--	--	--	--	--	--	--
MAR. 27...	1400	--	--	--	--	--	--	--	--	--	--	--
MAY 02...	4740	3.9	290	40	6.0	2.0	3.0	2.5	24	0	20	5.2
JUNE 07...	606	--	--	--	--	--	--	--	--	--	--	--
JULY 09...	93	--	--	--	--	--	--	--	--	--	--	--
AUG. 06...	95	--	--	--	--	--	--	--	--	--	--	--
30...	112	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NON-CARBONATE HARDNESS (MG/L)
OCT. 11...	6.6	.2	.25	--	--	.07	92	.13	205	--	54	0
NOV. 14...	--	--	.16	--	--	.10	--	--	--	--	--	--
DEC. 19...	--	--	.38	--	--	.16	--	--	--	--	--	--
JAN. 16...	--	--	.52	--	--	.22	--	--	--	--	--	--
FEB. 27...	--	--	.65	--	--	.26	--	--	--	--	--	--
MAR. 27...	--	--	.72	--	--	.38	--	--	--	--	--	--
MAY 02...	3.0	.0	.72	--	--	.18	46	.06	589	437	23	4
JUNE 07...	--	--	.57	.07	.64	.39	--	--	--	--	--	--
JULY 09...	--	--	.50	.02	.52	.30	--	--	--	--	--	--
AUG. 06...	--	--	.69	.02	.71	.23	--	--	--	--	--	--
30...	--	--	.12	.01	.13	.20	--	--	--	--	--	--

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 11...	17	.3	7.5	30	95	26	2.3	3.4	1200	E33	760	18
NOV. 14...	--	--	7.2	--	--	29	2.7	5.2	520	E130	300	--
DEC. 19...	--	--	--	--	--	18	--	--	1200	E33	E32	--
JAN. 16...	--	--	--	--	--	20	1.8	--	E4400	150	560	12
FEB. 27...	--	--	--	--	--	19	3.0	--	2900	E89	320	--
MAR. 27...	--	--	--	--	--	19	1.8	--	4700	1000	1700	--
MAY 02...	20	.3	6.8	400	720	28	2.2	6.1	--	--	--	--
JUNE 07...	--	--	--	--	--	--	1.9	--	880	E170	--	--
JULY 09...	--	--	--	--	--	8	--	--	750	E100	190	--
AUG. 06...	--	--	--	--	--	22	2.0	--	1600	E600	--	--
30...	--	--	--	--	--	18	2.8	--	920	--	200	--

07047942 L'Anguille River near Colt, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)
OCT.											
11...	.00	.0	.0	0	.00	4.0	.00	7.2	.00	25	.00
MAY											
16...	.00	.0	.0	0	.00	30	.00	30	.00	7.5	.00

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)
OCT.											
11...	.01	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00
MAY											
16...	.02	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)
OCT.										
11...	.00	.00	.0	0	.03	.0	.04	.0	.00	.0
MAY										
16...	.00	.00	.0	0	.07	.0	.03	.0	.00	.0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED SELE-NIUM (SE) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.											
11...	12	0	--	<10	0	15	0	<.5	1	--	22
MAY											
02...	<10	1	<10	--	2	10	1	<.5	3	3	60

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
11...	826	70	0	57	147	7.3	19.0	4.3	46	5.6
NOV.										
14...	2920	--	--	--	105	--	11.0	5.4	49	--
DEC.										
19...	2360	32	0	26	75	6.8	2.5	10.0	74	8.1
JAN.										
16...	610	40	0	33	121	6.8	3.0	9.4	70	10
FEB.										
27...	526	28	0	23	106	6.5	8.0	8.6	72	14
MAR.										
27...	1400	44	0	36	92	7.0	12.5	6.8	64	7.0
MAY										
02...	6740	20	0	16	66	6.2	19.0	6.2	66	20
16...	--	--	--	--	--	--	20.0	--	--	--
JUNE										
07...	606	32	0	26	99	6.8	23.5	4.4	51	8.1
JULY										
09...	93	208	0	171	422	7.8	27.0	4.3	54	5.3
AUG.										
06...	95	202	0	166	383	7.9	26.5	6.8	86	4.1
30...	112	300	0	246	499	7.6	26.0	5.6	70	12

BENTHIC INVERTEBRATE ANALYSES

JULY 9, 1973, COLLECTED BY A MULTIPLE-PLATE SAMPLER ATTACHED TO BRIDGE JUNE 7, 1973, AND REMOVED JULY 9, 1973

TAXA	No.	BIOMASS g/m^2
Coelenterata (Hydrozoa)	27	6.46
Hydracarina	2	
Ephemeroptera	186	
Neuroptera	1	
Trichoptera	5	
Diptera (Chironomidae)	410	

07047968 St. Francis River north of Helena, Ark.

LOCATION.--Lat 34°39'14", long 90°38'10", in sec.36, T.1 N., R.4 E., Lee County, at Phillips ferry crossing, 10 mi (16.1 km) north of Helena.

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.												
11...	--	--	--	--	27	--	6.0	--	--	--	--	--
24...	--	--	--	--	--	--	6.5	--	--	--	--	--
25...	--	--	--	--	127	--	--	--	--	--	--	--
NOV.												
08...	--	--	--	--	36	--	4.0	--	--	--	--	--
20...	--	--	--	--	60	--	3.5	--	--	--	--	--
DEC.												
06...	--	--	--	--	73	--	5.0	--	--	--	--	--
19...	1050	90	10	6.0	31	<1.0	5.0	1.5	.20	130	112	242
JAN.												
10...	--	--	--	--	--	--	3.5	--	--	--	--	--
13...	--	--	--	--	75	--	--	--	--	--	--	--
24...	--	--	--	--	68	--	4.5	--	--	--	--	--
FEB.												
07...	--	--	--	--	63	--	4.0	--	--	--	--	--
21...	--	--	--	--	--	--	4.0	--	--	--	--	--
MAR.												
14...	--	--	--	--	56	--	8.0	--	--	--	--	--
27...	970	66	10	7.0	64	<1.0	3.5	.80	.10	136	27	163
APR.												
11...	--	--	--	--	58	--	5.0	--	--	--	--	--
25...	--	--	--	--	54	--	2.5	--	--	--	--	--
MAY												
09...	--	--	--	--	36	--	2.5	--	--	--	--	--
21...	--	--	--	--	71	--	4.0	--	--	--	--	--
JUNE												
13...	--	--	--	--	92	--	4.5	--	--	--	--	--
26...	2020	210	26	7.0	89	9.0	7.5	.56	.25	131	98	229
JULY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	150	--	7.5	--	--	--	--	--
AUG.												
08...	--	--	--	--	171	--	9.0	--	--	--	--	--
28...	877	312	46	12	162	11	8.5	.14	.04	228	31	259
SEP.												
12...	--	--	--	--	82	--	5.5	--	--	--	--	--
26...	--	--	--	--	169	--	9.5	--	--	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.											
11...	--	--	161	6.8	22.0	--	160	6.8	78	2.5	--
24...	--	--	306	--	15.0	--	--	7.5	--	--	--
25...	--	--	--	7.3	--	--	75	--	76	3.2	--
NOV.											
08...	--	--	93	6.8	15.0	--	220	6.2	61	3.3	--
20...	--	--	127	7.3	8.0	--	<25	7.4	63	2.3	--
DEC.											
06...	--	--	163	7.1	7.0	--	35	9.6	77	1.7	--
19...	50	26	77	7.2	5.0	200	170	11.9	93	4.3	2209
JAN.											
10...	--	--	161	--	1.0	--	--	12.5	--	--	--
13...	--	--	--	7.5	--	--	<25	--	88	2.6	--
24...	--	--	126	7.3	7.0	--	550	9.5	78	2.6	--
FEB.											
07...	--	--	143	7.6	9.0	--	65	9.2	79	1.6	--
21...	--	--	156	--	7.0	--	--	10.9	--	--	--
MAR.											
14...	--	--	108	7.0	15.0	--	<25	7.1	70	2.8	--
27...	76	46	139	7.2	13.0	120	50	8.0	76	1.4	--
APR.											
11...	--	--	150	7.2	12.0	--	60	7.8	73	2.1	375
25...	--	--	115	7.2	19.0	--	80	7.0	76	4.3	6250
MAY											
09...	--	--	96	7.0	20.0	--	120	5.9	66	5.7	10000
21...	--	--	148	7.2	21.0	--	55	6.2	69	3.3	825
JUNE											
13...	--	--	186	7.2	23.0	--	10	6.6	76	3.6	1700
26...	96	66	183	7.8	29.0	10	70	5.7	73	5.1	525
JULY											
08...	--	--	--	--	--	--	--	--	--	--	820
25...	--	--	299	7.7	31.0	--	35	6.0	80	3.7	5500
AUG.											
08...	--	--	350	7.8	28.0	--	18	5.6	71	2.3	--
28...	160	116	330	7.7	27.0	10	20	5.4	67	3.1	1400
SEP.											
12...	--	--	160	7.6	26.0	--	120	6.6	56	2.3	50000
26...	--	--	360	7.8	25.0	--	50	6.0	72	2.5	1050

07047968 St. Francis River north of Helena, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
11...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
08...	--	--	--	--	--	--	--	--	--	--	--
19...	295	160	<3	<2	<100	6	10	13	<.0	<50	57
JAN.											
10...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
14...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	<3	<2	<10	--	5	<6	<.3	6	6
APR.											
11...	43	--	--	--	--	--	--	--	--	--	--
25...	2150	--	--	--	--	--	--	--	--	--	--
MAY											
09...	240	--	--	--	--	--	--	--	--	--	--
21...	60	--	--	--	--	--	--	--	--	--	--
JUNE											
13...	240	--	--	--	--	--	--	--	--	--	--
26...	40	52	<3	<2	9	--	7	10	<.5	9	16
JULY											
08...	60	--	--	--	--	--	--	--	--	--	--
25...	50	--	--	--	--	--	--	--	--	--	--
AUG.											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	220	26	<3	<2	30	--	<20	<5	--	<2	<6
SEP.											
12...	--	--	--	--	--	--	--	--	--	--	--
26...	200	--	--	--	--	--	--	--	--	--	--

07047970 Mississippi River at Helena, Ark.

LOCATION.--Lat 34°31'26", long 90°35'02", Phillips County, at gaging station on right bank at railroad ferry landing at Helena, 10.0 mi (16.1 km) downstream from St. Francis River, and at mile 666.3 (1,072.1 km).

DRAINAGE AREA.--941,700 mi² (2,439,000 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
11...	629000	--	--	--	--	69	--	16	--	--	--	--
24...	--	--	--	--	--	--	--	17	--	--	--	--
25...	--	--	--	--	--	101	--	--	--	--	--	--
NOV.												
08...	629000	--	--	--	--	90	--	15	--	--	--	--
20...	881000	--	--	--	--	73	--	3.5	--	--	--	--
DEC.												
06...	792000	--	--	--	--	104	--	14	--	--	--	--
19...	1100000	5115	625	20	9.0	62	30	12	1.0	1.6	190	600
JAN.												
10...	1030000	--	--	--	--	--	--	12	--	--	--	--
13...	--	--	--	--	--	92	--	--	--	--	--	--
26...	711000	--	--	--	--	104	--	12	--	--	--	--
FEB.												
07...	1060000	--	--	--	--	76	--	6.0	--	--	--	--
21...	989000	--	--	--	--	75	--	3.5	--	--	--	--
MAR.												
14...	--	--	--	--	--	61	--	5.0	--	--	--	--
27...	--	1790	93	9.0	5.0	30	<1.0	3.0	1.2	.23	172	30
APR.												
11...	1550000	--	--	--	--	67	--	6.5	--	--	--	--
24...	1420000	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	67	--	4.0	--	--	--	--
MAY												
08...	1560000	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	62	--	3.5	--	--	--	--
21...	1340000	--	--	--	--	30	--	6.0	--	--	--	--
JUNE												
13...	--	--	--	--	--	101	--	16	--	--	--	--
26...	432000	2500	220	50	6.0	123	61	16	1.7	.29	250	102
JULY												
09...	--	--	--	--	--	--	--	--	--	--	--	--
25...	372000	--	--	--	--	143	--	17	--	--	--	--
AUG.												
06...	403000	--	--	--	--	123	--	16	--	--	--	--
28...	340000	2030	165	65	12	126	60	15	1.9	.10	250	166
SEP.												
12...	203000	--	--	--	--	136	--	18	--	--	--	--
26...	257000	--	--	--	--	139	--	20	--	--	--	--

07047970 Mississippi River at Helena, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
11...	--	--	--	482	7.6	22.0	--	100	7.0	90	1.2	--
24...	--	--	--	418	--	1.5	--	--	8.0	--	--	--
25...	--	--	--	--	7.5	--	--	80	--	87	2.0	--
NOV.												
08...	--	--	--	304	7.5	14.0	--	290	8.0	77	3.3	--
28...	--	--	--	160	7.2	8.0	--	<25	7.0	60	1.5	--
DEC.												
08...	--	--	--	317	7.6	7.0	--	85	11.1	92	1.0	--
19...	675	110	76	230	7.0	6.0	70	260	11.6	93	3.5	4693
JAN.												
10...	--	--	--	271	--	2.0	--	--	11.7	--	--	--
13...	--	--	--	--	7.6	--	--	330	--	85	2.2	--
24...	--	--	--	329	7.6	6.0	--	220	11.2	90	2.9	--
FEB.												
07...	--	--	--	153	7.6	11.0	--	25	9.1	82	.8	--
21...	--	--	--	160	7.5	5.0	--	<25	11.2	88	1.5	--
MAR.												
16...	--	--	--	165	7.1	13.0	--	<25	8.7	84	1.9	--
27...	200	63	22	83	7.0	11.0	406	80	8.7	80	3.1	2700
APR.												
11...	--	--	--	195	7.4	13.0	--	85	8.6	82	1.6	1250
24...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	185	7.1	19.0	--	65	5.8	60	2.6	3350
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	121	7.1	20.0	--	130	6.5	71	2.2	1700
21...	--	--	--	78	6.8	20.0	--	65	4.8	52	4.6	1000
JUNE												
13...	--	--	--	304	7.7	25.0	--	70	6.7	80	2.9	--
26...	430	160	126	349	7.9	28.0	10	75	7.1	90	3.9	6600
JULY												
09...	--	--	--	--	--	--	--	--	--	--	--	20000
25...	--	--	--	412	8.3	29.0	--	82	7.2	90	5.9	22000
AUG.												
08...	--	--	--	356	8.4	28.0	--	50	6.9	87	2.9	--
28...	402	168	112	360	8.4	29.0	10	65	6.5	83	1.7	24600
SEP.												
12...	--	--	--	390	8.2	27.0	--	23	7.8	96	5.9	19000
26...	--	--	--	436	8.0	25.0	--	26	7.4	89	5.1	60000

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
11...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
08...	--	--	--	--	--	--	--	--	--	--	--
19...	650	305	11	3	<100	<5	20	60	<.7	<50	62
JAN.											
10...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
16...	--	--	--	--	--	--	--	--	--	--	--
27...	96	600	<3	<2	<10	--	7	8	<.2	20	9
APR.											
11...	96	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	1250	--	--	--	--	--	--	--	--	--	--
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
09...	220	--	--	--	--	--	--	--	--	--	--
21...	100	--	--	--	--	--	--	--	--	--	--
JUNE											
13...	--	--	--	--	--	--	--	--	--	--	--
26...	500	226	<3	--	11	--	19	7	<.1	5	30
JULY											
09...	--	--	--	--	--	--	--	--	--	--	--
25...	900	--	--	--	--	--	--	--	--	--	--
AUG.											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	5400	442	<3	<2	6	--	<20	6	--	<2	11
SEP.											
12...	970	--	--	--	--	--	--	--	--	--	--
26...	6000	--	--	--	--	--	--	--	--	--	--

07048700 White River near Goshen, Ark.

LOCATION.--Lat 36°06'21", long 94°00'41", in NE¼NW¼ sec.31, T.17 N., R.28 W., Washington County, at bridge on State Highway 45, 0.2 mi (0.3 km) upstream from Richland Creek, and 1.2 mi (1.9 km) west of Goshen.

DRAINAGE AREA.--412 mi² (1,067 km²), revised.

PERIOD OF RECORD.--Chemical analyses: July 1969 to July 1975 (discontinued).

CHEMICAL ANALYSES, OCTOBER 1972 TO JULY 1975

DATE	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)
OCT.												
11...	10	650	96	0	79	23	22	.09	.40	--	--	--
NOV.												
08...	--	--	32	0	26	7.7	6.1	.63	2.8	--	--	--
DEC.												
19...	--	--	36	0	30	12	5.6	.22	1.0	.05	.06	.11
JAN.												
17...	--	--	36	0	30	13	12	.14	.60	.28	.36	.34
FEB.												
21...	--	--	36	0	30	11	5.1	.63	2.8	.00	.00	.05
MAR.												
21...	--	--	34	0	28	7.0	3.1	.45	2.0	.13	.17	.04
APR.												
25...	60	20	32	0	26	10	4.0	.61	2.7	.01	.01	.37
MAY												
30...	--	--	36	0	30	16	4.6	.41	1.8	.01	.01	.13
JULY												
03...	--	--	52	0	43	9.0	3.1	.61	2.7	.06	.08	.20

DATE	TOTAL PHOS-PHORUS (P) (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.												
11...	1.2	82	4	276	7.0	20	2.0	--	>1600	360	190	13
NOV.												
08...	.12	30	4	79	7.2	0	2.6	3.2	E030	--	100	--
DEC.												
19...	.22	33	4	96	7.5	7	1.8	1.0	1600	<11	<2	--
JAN.												
17...	.17	36	6	98	7.6	17	1.0	2.3	262	<7	E6	3.5
FEB.												
21...	.11	32	3	95	7.6	5	.9	2.3	260	<7	5	--
MAR.												
21...	.12	31	3	85	7.2	1	--	3.6	2000	E65	200	--
APR.												
25...	.26	30	4	78	7.6	8	4.0	2.0	--	E1200	E1300	--
MAY												
30...	.17	31	2	81	7.3	6	1.6	2.9	E5600	600	120	--
JULY												
03...	.26	47	4	121	7.2	14	--	5.2	--	--	--	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.											
11...	6	0	--	0	0	7	0	.6	--	5	12
APR.											
25...	<10	2	<10	--	3	60	0	--	<.5	0	120

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.									
11...	112	0	92	284	6.9	17.5	3.0	31	--
NOV.									
08...	--	--	--	81	7.0	10.0	10.0	88	--
DEC.									
19...	36	0	30	115	6.7	6.5	12.2	99	11
JAN.									
17...	28	0	23	104	7.2	7.0	11.1	92	2.8
FEB.									
21...	--	--	--	93	--	6.5	10.9	88	--
MAR.									
21...	36	0	30	81	5.8	7.5	9.8	82	91
APR.									
25...	33	0	27	86	6.6	15.0	8.9	88	13
MAY									
30...	40	0	33	82	7.0	17.0	7.8	80	6.6
JULY									
03...	72	0	59	126	7.2	26.0	6.9	58	7.3

07049690 Beaver Lake near Eureka Springs, Ark.

LOCATION.--Lat 36°25'15", long 93°50'50", in NW¼NW¼ sec.10, T.20 N., R.27 W., Carroll County, at gaging station at dam on White River, 6 mi (9.7 km) west of Eureka Springs, and at mile 609.0 (979.9 km).

DRAINAGE AREA.--1,192 mi² (3,087 km²) revised.

PERIOD OF RECORD.--Chemical analyses: October 1967 to September 1971, October 1972 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
03...	20	<100	<25	22	2.0	27	2.5	4.0	<.10	<.01	65	9
17...	20	--	--	--	--	51	--	3.0	--	--	--	--
30...	20	--	--	--	--	54	--	3.0	--	--	--	--
NOV.												
13...	1900	--	--	--	--	60	--	4.0	--	--	--	--
27...	20	--	--	--	--	60	--	>4.5	--	--	--	--
JAN.												
02...	20	<50	35	20	4.0	62	6.1	3.5	<.10	.02	76	12
16...	20	--	--	--	--	63	--	3.5	--	--	--	--
29...	20	--	--	--	--	60	--	4.0	--	--	--	--
FEB.												
12...	8200	--	--	--	--	61	--	4.0	--	--	--	--
26...	20	--	--	--	--	61	--	5.0	--	--	--	--
MAR.												
19...	--	--	--	--	--	60	--	4.5	--	--	--	--
APR.												
03...	--	<20	5	22	2.0	59	5.0	4.0	<.10	.01	82	3
04...	8000	--	--	--	--	--	--	--	--	--	--	--
17...	8550	--	--	--	--	60	--	5.0	--	--	--	--
30...	--	--	--	--	--	57	--	4.0	--	--	--	--
MAY												
01...	8460	--	--	--	--	--	--	--	--	--	--	--
14...	7360	--	--	--	--	51	--	4.0	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
29...	4070	--	--	--	--	48	--	4.0	--	--	--	--
JUNE												
18...	545	--	--	--	--	48	--	4.0	--	--	--	--
JULY												
16...	20	--	--	--	--	48	--	4.5	--	--	--	--
30...	3910	--	--	--	--	49	--	8.0	--	--	--	--
AUG.												
13...	3700	--	--	--	--	49	--	5.0	--	--	--	--
20...	8340	--	--	--	--	49	--	6.5	--	--	--	--
SEP.												
04...	--	<30	<20	18	1.0	50	7.0	4.0	<.10	.04	70	--
05...	20	--	--	--	--	--	--	--	--	--	--	--
18...	20	--	--	--	--	51	--	4.5	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
03...	74	63	56	142	8.2	21.5	5	20	8.0	90	.9	40
17...	--	--	--	135	7.5	20.0	--	25	8.6	93	1.0	--
30...	--	--	--	137	7.4	16.0	--	25	8.0	81	.1	--
NOV.												
13...	--	--	--	133	7.4	15.0	--	19	8.4	83	1.0	--
27...	--	--	--	129	7.5	9.0	--	<25	9.2	71	.4	--
JAN.												
02...	88	66	50	127	7.2	10.0	0	<25	9.8	87	.2	0
16...	--	--	--	139	7.6	2.2	--	<25	10.3	75	.7	--
29...	--	--	--	142	7.5	5.0	--	<25	10.9	86	1.5	--
FEB.												
12...	--	--	--	139	7.7	6.0	--	<25	10.9	88	1.5	--
26...	--	--	--	143	7.5	8.0	--	<25	11.3	95	1.1	--
MAR.												
19...	--	--	--	135	7.6	12.0	--	<25	11.1	103	1.2	--
APR.												
03...	85	63	54	132	7.7	10.0	5	<25	10.9	96	.6	0
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	138	7.6	14.0	--	<25	11.1	107	1.2	<5
30...	--	--	--	131	7.7	18.0	--	4	10.3	109	.9	<4
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	115	7.7	19.0	--	5	10.4	111	2.0	<4
22...	--	--	--	--	--	--	--	--	--	--	--	<4
29...	--	--	--	112	7.9	20.0	--	3	9.6	104	1.3	--
JUNE												
18...	--	--	--	107	8.2	23.0	--	1	8.9	102	2.3	<4
JULY												
16...	--	--	--	102	7.8	27.5	--	1	8.3	104	3.1	<4
30...	--	--	--	109	8.3	26.0	--	2	8.7	106	1.4	4
AUG.												
13...	--	--	--	101	8.3	29.0	--	1	9.6	123	2.5	<3
20...	--	--	--	108	8.7	30.0	--	1	9.8	130	4.1	<4
SEP.												
04...	69	49	46	104	8.2	27.0	0	1	8.6	106	1.3	85
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	108	7.8	22.0	--	1	8.0	91	1.1	<5

07049690 Beaver Lake near Eureka Springs, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
03...	4	1100	--	2	<50	--	240	<100	<.1	290	31
17...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
13...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	0	0	<3	<2	<100	<5	110	20	<.1	<50	22
16...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	--	--	--	--	--	--	--	--	--	--	--
APR.											
03...	0	36	<3	<2	<10	--	26	<10	<.1	<10	18
04...	--	--	--	--	--	--	--	--	--	--	--
17...	<4	<4	--	--	--	--	--	--	--	--	--
30...	<4	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
14...	<4	--	--	--	--	--	--	--	--	--	--
22...	<4	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	<4	--	--	--	--	--	--	--	--	--	--
JULY											
16...	<4	--	--	--	--	--	--	--	--	--	--
30...	<4	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	<3	--	--	--	--	--	--	--	--	--	--
20...	<4	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	24	86	10	<2	<4	--	41	<5	--	<2	8
05...	--	--	--	--	--	--	--	--	--	--	--
18...	<4	--	--	--	--	--	--	--	--	--	--

07049695 White River above Busch, Ark.

LOCATION.--Lat 36°26'32", long 93°50'13", temperature recorder on left bank 1.5 mi (2.4 km) south of Busch, Carroll County, 100 ft (30 m) upstream from Spider Creek, and 3.4 mi (5.5 km) downstream from Beaver Dam.

DRAINAGE AREA.--1,192 mi² (3,087 km²), revised, at Beaver Dam.

PERIOD OF RECORD.--Water temperature: October 1968 to August 1969, May 1972 to September 1973.

EXTREMES.--May to September 1972:
Water temperatures: Maximum, 22.0°C July 15, 17, Aug. 13.

Water Year 1973:
Water temperatures: Maximum, 18.5°C July 16, Aug. 6; minimum, 1.5°C Jan. 6-8, 12.

Period of record:
Water temperatures: Maximum, 22.0°C July 15, 17, Aug. 13, 1972; minimum, 1.5°C Jan. 6-8, 12, 1973.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, MAY TO SEPTEMBER 1972
(CONTINUOUS RECORDING THERMOMETER)

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1			--	--	15.0	8.0	16.0	9.0	13.5	8.5	14.0	9.5
2			--	--	18.5	8.0	18.5	13.5	15.0	8.5	16.0	13.0
3			--	--	15.5	8.5	16.5	14.0	14.5	9.0	15.5	13.5
4			--	--	16.0	8.5	14.0	13.0	11.5	8.5	14.0	12.0
5			--	--	19.5	8.0	15.5	11.0	16.0	9.0	16.0	11.5
6			--	--	13.5	8.0	20.0	12.0	18.0	13.5	18.0	13.0
7			--	--	12.0	8.0	19.5	13.5	18.0	8.5	19.5	9.5
8			--	--	12.0	8.0	18.0	13.5	12.0	8.5	15.0	9.0
9			--	--	12.0	8.0	21.5	13.5	13.0	8.5	13.5	9.0
10			--	--	11.0	8.0	21.5	8.5	15.0	8.5	17.0	13.0
11			--	--	16.5	10.0	15.5	8.0	13.5	8.5	18.5	9.0
12			--	--	21.0	13.5	16.0	8.5	17.0	8.5	15.0	9.0
13			--	--	21.0	9.0	19.0	14.5	22.0	15.0	14.5	9.5
14			--	--	15.5	9.0	21.0	15.5	19.0	9.0	14.5	9.0
15			--	--	18.5	13.0	22.0	18.0	12.0	9.0	13.0	9.0
16			--	--	18.5	9.0	20.0	16.0	12.0	9.0	15.5	9.0
17			--	--	16.5	9.0	22.0	9.0	12.0	9.0	19.5	14.0
18			--	--	21.5	11.0	14.0	8.5	13.0	9.0	17.0	9.5
19			9.0	8.0	18.0	8.5	16.5	9.0	14.0	9.0	13.0	9.5
20			14.5	8.0	13.5	9.5	13.0	8.5	15.5	9.0	12.0	9.5
21			17.0	12.0	14.0	8.5	13.0	8.5	11.5	9.5	12.0	9.5
22			17.0	8.0	15.5	8.5	17.0	8.5	12.0	9.0	11.5	11.0
23			19.0	8.0	17.0	13.0	21.0	15.0	16.0	9.5	14.5	11.0
24			15.0	8.0	19.0	8.5	21.5	9.0	19.5	14.5	16.0	13.0
25			11.5	8.0	19.5	8.5	16.5	9.0	19.5	15.5	15.5	13.0
26			11.0	8.0	18.5	8.5	13.5	9.0	18.0	14.0	13.5	9.0
27			14.0	8.0	13.0	8.5	13.5	8.5	19.0	14.5	--	--
28			18.5	12.0	16.0	8.5	11.0	8.5	18.5	14.5	--	--
29			17.0	13.5	13.0	8.5	14.0	10.0	19.0	14.5	--	--
30			--	--	12.0	8.5	18.0	13.0	16.5	8.5	--	--
31			--	--	--	--	19.0	8.5	16.0	9.0	--	--
AVG			--	--	16.0	9.0	17.5	11.0	15.5	10.0	15.0	10.5

07049695 White River above Busch, Ark.--continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	12.0	9.5	9.0	7.0	4.0	3.0	5.5	5.0	5.0	4.5
2	--	--	10.0	9.5	9.0	8.0	4.0	3.0	5.0	4.5	5.5	5.0
3	--	--	10.5	9.0	9.0	8.5	5.0	4.0	5.0	4.0	8.5	5.5
4	--	--	10.0	9.0	9.0	6.5	5.0	3.0	6.0	4.5	9.0	8.0
5	--	--	10.5	8.5	9.0	8.0	3.0	2.0	6.5	5.0	9.0	5.5
6	--	--	10.0	9.0	8.5	5.5	3.0	1.5	5.5	5.0	6.5	4.5
7	--	--	10.5	9.0	8.5	6.0	2.0	1.5	5.0	4.5	5.5	4.5
8	--	--	10.0	8.5	8.5	7.0	5.0	1.5	4.5	3.5	6.5	5.0
9	--	--	10.0	8.5	8.5	5.0	4.5	2.0	4.5	3.5	6.5	5.0
10	--	--	10.0	9.0	5.0	3.0	5.0	3.0	5.0	3.5	9.0	5.5
11	14.5	12.0	9.5	8.5	7.0	2.0	4.5	2.0	5.0	3.5	9.0	5.0
12	13.5	9.5	9.5	9.0	--	--	5.0	1.5	4.5	4.5	6.0	5.0
13	11.0	9.5	10.5	9.0	--	--	5.0	3.0	5.0	4.5	6.5	5.5
14	11.0	9.5	9.5	7.0	--	--	5.0	4.0	5.0	4.5	6.5	5.5
15	11.5	10.0	7.0	6.5	--	--	5.0	3.5	4.5	3.5	6.5	5.5
16	13.0	9.5	9.5	6.5	--	--	6.0	3.5	4.5	3.5	6.0	5.0
17	11.0	9.5	9.0	7.0	--	--	8.5	6.0	4.0	3.0	6.5	5.0
18	9.5	9.0	7.0	5.0	--	--	8.5	5.5	4.5	4.0	7.0	5.5
19	9.5	8.0	5.5	5.0	--	--	6.0	5.0	5.5	4.5	6.0	5.5
20	9.5	8.0	9.0	5.5	6.5	5.5	6.0	5.0	5.5	4.5	6.0	5.0
21	10.0	9.0	8.5	7.0	6.5	5.0	6.5	6.0	5.5	4.0	7.0	5.0
22	13.0	10.0	8.5	7.0	5.0	3.5	6.0	5.0	5.0	3.5	6.0	5.5
23	12.0	10.0	8.5	6.5	6.0	3.5	5.0	5.0	5.5	4.0	6.0	5.5
24	10.0	8.5	6.5	5.5	6.0	[illegible]	5.0	4.5	6.5	4.5	6.5	5.5
25	9.5	8.5	6.5	6.0	6.0	5.0	5.0	4.5	7.0	6.0	9.0	6.0
26	9.5	7.0	7.0	5.5	6.0	4.5	5.5	5.0	6.0	5.0	9.0	5.5
27	9.5	8.5	6.5	6.5	6.0	4.0	6.0	5.5	5.5	4.5	6.0	5.5
28	9.0	8.0	8.5	6.0	6.5	4.5	6.0	3.5	5.5	4.0	6.0	5.5
29	10.0	8.5	9.0	6.5	9.0	6.5	4.5	2.0	--	--	6.0	5.5
30	10.0	9.5	--	--	9.0	5.5	5.0	3.5	--	--	6.5	5.5
31	11.5	9.5	--	--	5.5	3.5	6.0	4.0	--	--	8.0	6.5
AVG	--	--	9.0	7.5	--	--	5.0	3.5	5.5	4.0	7.0	5.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	6.0	8.5	8.5	9.0	8.5	10.0	9.5	11.5	9.5	--	--
2	6.5	6.0	8.5	8.5	9.5	8.5	15.0	9.0	11.5	10.0	--	--
3	6.5	6.0	8.5	8.5	16.5	14.5	10.0	9.0	15.0	11.5	--	--
4	6.0	6.0	8.5	8.5	16.0	15.5	10.0	9.0	16.0	14.0	--	--
5	6.5	6.0	8.5	8.5	16.0	8.5	10.0	9.5	16.5	15.0	11.5	11.0
6	6.5	6.0	8.5	8.5	9.5	8.5	10.0	9.5	18.5	10.0	13.5	11.0
7	6.5	6.0	11.0	8.0	9.5	8.5	10.0	9.5	13.0	10.0	14.0	10.5
8	6.5	6.5	8.5	9.0	9.5	8.5	11.0	9.5	14.0	10.0	13.5	10.5
9	7.0	6.0	8.5	8.0	10.0	9.0	10.0	9.0	11.5	10.0	16.0	14.0
10	7.0	6.5	9.0	8.5	9.5	9.0	9.5	9.5	12.0	10.0	16.5	11.0
11	7.0	6.0	8.5	8.5	13.5	9.0	10.0	9.0	11.5	10.0	12.0	11.0
12	8.0	6.5	9.0	8.5	9.5	9.0	10.0	9.5	16.5	11.5	13.0	11.0
13	7.0	6.5	9.0	8.5	9.5	8.5	11.0	9.5	18.0	10.0	13.0	11.0
14	7.0	6.5	8.5	8.5	9.0	9.0	10.0	9.5	12.0	10.0	11.5	10.5
15	7.0	6.0	9.0	8.5	9.5	8.5	10.5	10.0	11.5	10.0	13.5	10.5
16	7.0	6.0	9.0	8.5	9.5	9.0	18.5	9.5	13.5	10.0	14.5	13.5
17	8.0	6.0	9.0	8.5	10.0	9.5	9.5	9.5	12.0	10.5	14.5	10.5
18	8.0	6.0	9.0	8.5	14.5	9.0	10.5	9.5	12.0	10.5	11.5	10.5
19	8.0	6.0	9.0	8.5	9.0	9.0	10.0	9.5	15.0	12.0	13.5	10.5
20	8.0	6.0	9.0	8.5	9.5	9.0	11.0	9.5	17.0	10.5	15.0	14.0
21	8.0	6.5	13.0	8.5	10.0	9.0	10.5	10.0	13.0	10.5	14.5	11.0
22	8.5	6.5	8.5	8.5	10.0	9.0	14.5	10.5	13.5	10.0	13.0	11.0
23	10.0	6.5	8.5	8.5	9.5	9.0	16.0	9.5	12.0	10.5	14.0	11.0
24	10.0	6.5	9.5	8.5	9.5	9.5	11.0	9.5	13.5	10.5	14.5	11.0
25	9.5	6.5	9.0	8.0	14.0	9.0	11.0	10.0	13.0	10.5	13.0	11.0
26	9.0	6.5	10.5	8.5	9.0	9.0	10.5	10.0	12.0	10.5	14.5	11.0
27	9.5	6.0	9.0	8.5	10.0	9.0	11.5	10.0	13.0	10.5	14.0	11.0
28	8.5	6.0	8.5	8.5	9.5	9.0	11.5	10.0	--	--	14.5	14.0
29	8.5	6.5	9.0	8.5	9.5	9.0	14.0	11.5	--	--	15.0	13.5
30	9.0	7.0	9.0	8.5	9.5	9.0	15.5	10.0	--	--	15.5	14.5
31	--	--	9.0	8.5	--	--	11.0	9.5	--	--	--	--
AVG	8.0	7.0	9.0	8.0	10.5	9.0	11.5	9.5	13.5	11.0	14.0	--

07050500 Kings River near Berryville, Ark.

LOCATION.--Lat 36°25'36", long 93°37'15", in SE¼NE¼ sec.3, T.20 N., R.25 W., Carroll County, at gaging station on right bank at downstream side of bridge on State Highway 143, 1.5 mi (2.4 km) downstream from Bee Creek, 2.5 mi (4.0 km) upstream from Clabber Creek, 5.3 mi (8.5 km) northwest of Berryville, and at mile 35.1 (56.5 km).

DRAINAGE AREA.--532 mi^2 (1,378 km^2).

PERIOD OF RECORD.--Chemical analyses: October 1953 to September 1960, October 1971 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
01...	248	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	52	--	--	--	--	12	--	5.0	--	--	--	--
30...	--	--	--	--	--	135	--	3.0	--	--	--	--
NOV.												
13...	4140	--	--	--	--	91	--	3.5	--	--	--	--
27...	665	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	62	--	--	--	--
JAN.												
02...	210	120	<20	26	6.0	83	8.7	4.0	<.10	.03	54	55
16...	386	--	--	--	--	108	--	4.5	--	--	--	--
29...	1250	--	--	--	--	93	--	3.5	--	--	--	--
FEB.												
12...	1460	--	--	--	--	83	--	4.0	--	--	--	--
26...	680	--	--	--	--	101	--	5.0	--	--	--	--
MAR.												
19...	830	--	--	--	--	89	--	5.0	--	--	--	--
APR.												
03...	--	<20	18	25	5.0	76	4.0	3.5	.70	.03	104	17
04...	1890	--	--	--	--	--	--	--	--	--	--	--
17...	2730	--	--	--	--	62	--	4.5	--	--	--	--
30...	--	--	--	--	--	86	--	3.0	--	--	--	--
MAY												
01...	1470	--	--	--	--	--	--	--	--	--	--	--
14...	1280	--	--	--	--	95	--	3.5	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
29...	1140	--	--	--	--	74	--	3.5	--	--	--	--
JUNE												
18...	420	--	--	--	--	111	--	3.5	--	--	--	--
JULY												
16...	195	--	--	--	--	114	--	4.5	--	--	--	--
30...	87	--	--	--	--	120	--	5.0	--	--	--	--
AUG.												
13...	115	--	--	--	--	134	--	7.0	--	--	--	--
20...	262	--	--	--	--	132	--	8.0	--	--	--	--
SEP.												
04...	--	183	<20	38	10	136	7.0	5.5	<.01	.16	159	18
05...	288	--	--	--	--	--	--	--	--	--	--	--
18...	33	--	--	--	--	140	--	6.0	--	--	--	--

07050500 Kings River near Berryville, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
01...	--	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--	1137
17...	--	--	--	264	7.6	16.0	--	30	7.6	76	1.3	--
30...	--	--	--	268	7.9	14.0	--	25	8.5	82	.1	--
NOV.												
13...	--	--	--	183	7.6	12.0	--	108	9.5	88	3.0	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	222	--	7.0	--	--	8.8	--	--	--
JAN.												
02...	104	90	64	160	7.6	6.0	0	<25	12.9	104	1.4	--
16...	--	--	--	221	7.8	<3.0	--	<25	12.2	--	3.6	--
29...	--	--	--	198	7.7	4.0	--	<25	12.1	92	1.4	--
FEB.												
12...	--	--	--	178	7.8	4.5	--	<25	11.6	90	2.2	--
26...	--	--	--	212	7.9	9.0	--	<25	12.3	106	1.5	--
MAR.												
19...	--	--	--	185	7.8	13.5	--	<25	10.1	96	1.6	--
APR.												
03...	121	83	62	153	7.6	8.0	15	<25	10.1	85	.3	86
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	136	7.7	15.0	--	35	10.1	99	1.0	590
30...	--	--	--	177	7.7	19.0	--	9	9.5	101	.8	20
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	184	7.8	15.5	--	7	9.7	96	1.6	<5
22...	--	--	--	--	--	--	--	--	--	--	--	104
29...	--	--	--	167	7.6	17.0	--	18	8.7	90	.6	--
JUNE												
18...	--	--	--	209	8.0	20.5	--	1	7.8	86	2.0	<4
JULY												
16...	--	--	--	214	7.9	23.5	--	10	7.4	87	2.9	112
30...	--	--	--	233	8.0	26.0	--	6	6.7	82	.4	<4
AUG.												
13...	--	--	--	256	8.1	26.0	--	5	7.9	96	3.2	--
20...	--	--	--	247	8.5	32.0	--	6	10.3	140	2.9	4
SEP.												
04...	177	140	94	248	8.0	28.0	5	7	6.7	86	2.2	<5
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	266	8.0	16.0	--	4	8.0	80	.7	<5

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
01...	--	--	--	--	--	--	--	--	--	--	--
03...	285	12000	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
13...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	--	--	<3	2	<100	<5	60	8	<.1	<50	11
16...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	--	--	--	--	--	--	--	--	--	--	--
APR.											
03...	13	68	<3	<2	<10	--	29	10	<.1	19	45
04...	--	--	--	--	--	--	--	--	--	--	--
17...	230	650	--	--	--	--	--	--	--	--	--
30...	15	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
14...	<4	--	--	--	--	--	--	--	--	--	--
22...	68	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	<4	--	--	--	--	--	--	--	--	--	--
JULY											
16...	4	--	--	--	--	--	--	--	--	--	--
30...	<4	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
20...	<4	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	<4	<4	<3	<2	6	--	80	<5	--	13	26
05...	--	--	--	--	--	--	--	--	--	--	--
18...	<4	--	--	--	--	--	--	--	--	--	--

07055500 White River at Cotter, Ark.

LOCATION.--Lat 36°16'02", long 92°32'39", in NW¼NW¼ sec.26, T.19 N., R.15 W., Marion County, temperature recorder on right bank, 300 ft (91 m) downstream from bridge on U.S. Highway 62, 2 mi (3.2 km) southwest of Cotter, 3.3 mi (5.3 km) downstream from Hightower Creek, and 17 mi (27.4 km) downstream from Bull Shoals Dam.

DRAINAGE AREA.--6,129 mi² (15,874 km²), revised.

PERIOD OF RECORD.--Chemical analyses: October 1947 to July 1959.
Water temperatures: October 1947 to July 1959, October 1966 to September 1973.

EXTREMES.--Current year:
Water temperatures: Maximum, 22.0°C June 10-11; minimum, 2.0°C Feb. 9-10.

Period of record:
Water temperatures (1951-59, 1966-73): Maximum, 26.0°C Sept. 20, 1954; minimum, freezing point Feb. 8, 1971.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.0	10.5	16.0	13.0	10.5	7.0	6.0	3.0	6.5	5.0	9.0	5.5
2	16.5	12.0	14.0	11.0	10.5	7.0	6.0	3.0	5.0	4.5	8.5	5.5
3	16.0	10.5	14.0	10.0	11.5	8.0	6.5	5.5	6.0	4.0	10.5	6.0
4	14.0	11.0	14.0	10.0	10.0	8.0	6.0	5.5	6.0	4.0	10.5	9.0
5	13.5	11.0	13.5	10.0	10.0	9.0	--	--	6.0	4.5	10.5	5.0
6	12.0	11.0	11.5	9.5	9.5	6.0	--	--	5.5	4.5	6.5	4.5
7	14.5	11.5	12.0	10.0	9.0	6.5	--	--	4.5	4.5	7.0	4.5
8	15.0	11.0	--	--	8.5	8.0	--	--	5.0	3.5	6.0	4.0
9	13.5	11.5	--	--	8.5	6.5	--	--	5.0	2.0	5.5	4.5
10	13.0	10.5	--	--	--	--	--	--	5.5	2.0	10.5	4.5
11	16.5	11.0	--	--	--	--	--	--	5.5	3.5	10.5	4.5
12	15.0	11.5	--	--	--	--	--	--	4.5	4.0	11.0	4.0
13	13.5	11.5	--	--	--	--	--	--	5.5	4.5	6.5	4.5
14	13.5	11.5	--	--	--	--	--	--	5.0	4.0	9.0	4.0
15	14.5	11.0	--	--	--	--	--	--	4.5	3.5	7.0	4.0
16	14.5	11.5	--	--	--	--	--	--	4.5	3.0	5.5	4.5
17	14.5	11.5	--	--	--	--	--	--	--	--	7.0	4.0
18	11.5	11.0	--	--	--	--	--	--	--	--	8.0	4.5
19	13.0	10.5	--	--	--	--	--	--	--	--	8.5	5.5
20	11.5	10.5	--	--	7.0	6.0	--	--	5.5	4.0	6.0	5.5
21	12.0	11.0	--	--	7.0	5.5	--	--	5.5	3.5	8.0	5.5
22	14.0	11.5	--	--	6.5	5.5	6.0	4.5	5.0	3.5	7.0	5.0
23	13.0	12.0	--	--	--	--	6.0	4.5	5.5	3.5	6.0	5.5
24	12.0	11.5	--	--	--	--	6.0	3.0	5.5	3.5	6.0	5.5
25	13.5	11.0	--	--	8.0	6.0	6.0	4.0	6.5	4.5	8.5	5.5
26	12.0	10.5	--	--	7.0	6.0	5.5	5.0	5.0	4.0	7.0	5.5
27	11.5	10.5	--	--	8.0	4.5	7.0	5.0	5.5	4.0	9.0	5.0
28	12.0	10.0	--	--	8.0	5.0	5.5	3.5	8.0	4.0	8.0	5.5
29	13.5	11.5	--	--	8.5	6.5	5.5	2.0	--	--	9.0	5.5
30	13.0	12.0	9.5	8.5	8.5	8.0	6.0	3.5	--	--	8.0	5.5
31	13.5	12.0	--	--	8.0	4.5	5.5	4.5	--	--	9.0	5.0
AVG	13.5	11.0	--	--	--	--	--	--	5.5	3.5	8.0	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	7.0	5.0	8.0	8.0	11.5	8.5	11.5	10.0	13.0	11.0	14.5	13.0
2	8.5	6.0	11.0	7.0	11.5	9.0	14.0	10.0	12.0	10.5	14.0	13.0
3	6.5	5.5	9.0	6.5	11.5	9.0	--	--	12.0	10.5	14.0	13.5
4	6.5	5.5	9.0	6.5	11.0	9.0	--	--	13.0	11.0	13.5	13.5
5	9.0	9.0	9.0	7.0	14.0	9.5	--	--	13.5	11.0	13.5	13.5
6	8.5	5.5	8.0	8.0	14.0	9.5	11.5	9.5	13.0	11.0	13.5	13.5
7	6.5	5.5	11.5	8.0	14.5	9.5	14.5	10.0	13.0	11.5	13.5	13.5
8	7.0	5.5	10.5	8.5	16.0	9.5	12.0	10.0	13.5	11.5	14.5	13.0
9	6.5	5.5	9.5	7.0	18.0	9.5	11.0	10.0	13.0	11.5	14.5	13.5
10	9.0	5.5	9.5	8.0	22.0	16.0	11.0	10.0	13.0	11.5	14.5	13.5
11	9.5	6.5	8.5	8.0	22.0	10.0	11.5	10.0	13.5	11.5	14.5	13.5
12	9.0	7.0	9.5	8.0	17.0	10.0	11.5	10.0	13.5	11.5	14.5	13.5
13	8.0	6.5	9.5	7.0	13.5	9.0	11.5	10.0	13.0	11.5	14.5	13.5
14	8.0	6.0	9.5	7.0	15.5	9.0	11.0	10.0	13.5	11.5	14.5	13.5
15	8.0	6.5	9.5	7.0	15.5	9.0	11.0	10.5	--	--	14.0	13.5
16	10.0	7.0	10.0	7.0	--	--	11.0	10.5	--	--	14.5	13.5
17	8.5	6.5	9.5	7.0	--	--	13.0	10.5	--	--	14.5	13.5
18	8.0	6.5	9.5	8.0	--	--	11.5	10.5	--	--	14.0	13.5
19	8.0	6.5	9.5	8.0	--	--	11.5	10.5	--	--	15.0	13.0
20	11.0	7.0	10.0	8.0	--	--	12.0	10.5	--	--	14.5	13.0
21	10.5	7.0	9.5	8.5	--	--	12.0	10.5	14.0	12.0	14.5	13.5
22	16.0	7.0	10.0	9.0	--	--	12.0	10.5	14.0	11.5	16.0	14.0
23	14.5	9.5	9.5	8.5	--	--	12.0	11.0	13.5	12.0	16.0	13.5
24	11.0	7.0	10.0	8.5	--	--	12.0	11.0	14.0	12.0	16.5	14.0
25	10.0	7.0	10.0	8.5	17.0	9.5	12.0	11.0	14.0	12.0	14.5	14.0
26	10.0	8.0	10.5	8.5	13.0	10.0	12.0	11.0	14.0	13.0	15.0	14.0
27	11.0	6.5	14.5	9.5	14.5	10.0	12.0	10.5	14.0	13.0	16.0	14.0
28	9.0	6.0	14.0	9.0	14.0	9.5	14.0	10.5	14.0	13.0	15.5	14.0
29	8.5	6.5	13.0	9.0	10.5	9.5	14.0	11.0	14.0	13.0	15.0	14.0
30	8.5	8.0	13.0	9.0	14.5	9.5	12.0	11.0	14.0	13.0	16.5	13.5
31	---	--	10.0	9.0	--	--	13.5	11.0	14.0	13.0	18.0	14.0
AVG	9.0	6.5	10.0	8.0	--	--	12.0	10.0	13.0	12.0	15.0	13.5

07060500 White River at Calico Rock, Ark.

LOCATION.--Lat 36°06'58", long 92°08'35", in SE¼NE¼ sec.22, T.17 N., R.11 W., Izard County, at gaging station on left bank at Calico Rock, 200 ft (61 m) upstream from bridge on State Highway 5, 700 ft (213 m) upstream from Calico Creek, 3.2 mi (5.1 km) downstream from Cataract Creek, 6 mi (9.7 km) upstream from Piney Creek, and at mile 359.1 (577.8 km).

DRAINAGE AREA.--9,978 mi² (25,843 km²), revised.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.
Water temperatures: October 1966 to September 1973.

EXTREMES.--Current year:
Water temperature: Maximum, 25.5°C June 11; minimum, 3.5°C Jan. 6-7.

Period of record:
Water temperature: Maximum, 27.0°C July 6, 1971; minimum, 3.0°C Dec. 25, 1967, Feb. 8, 1971.

REMARKS.--Flow regulated by upstream reservoirs. Temperature records furnished by Arkansas Game and Fish Commission.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT. 12...	6680	2.0	0	0	38	13	3.0	1.7	172	4	148	6.4
NOV. 21...	7020	--	--	--	--	--	--	--	166	0	136	--
DEC. 26...	6340	--	--	--	--	--	--	--	--	--	--	--
JAN. 24...	13200	--	--	--	--	--	--	--	--	--	--	--
MAR. 07...	14800	--	--	--	--	--	--	--	--	--	--	--
APR. 19...	30800	3.2	10	0	32	11	2.0	1.3	--	--	--	7.0
MAY 24...	31000	--	--	--	--	--	--	--	--	--	--	--
JUNE 19...	15700	--	--	--	--	--	--	--	--	--	--	--
JULY 17...	21100	--	--	--	--	--	--	--	--	--	--	--
AUG. 09...	10600	--	--	--	--	--	--	--	--	--	--	--
SEP. 04...	24000	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM
OCT. 12...	2.6	.1	.20	--	--	.00	151	.21	2720	150	1	4
NOV. 21...	--	--	.20	--	--	.00	--	--	--	--	--	--
DEC. 26...	--	--	.16	--	--	.00	--	--	--	--	--	--
JAN. 24...	--	--	.25	--	--	.04	--	--	--	--	--	--
MAR. 07...	--	--	.10	--	--	.02	--	--	--	--	--	--
APR. 19...	3.6	.1	--	.00	--	.01	150	.20	12500	125	--	3
MAY 24...	--	--	.34	.00	.34	.03	--	--	--	--	--	--
JUNE 19...	--	--	.35	.00	.35	.02	--	--	--	--	--	--
JULY 17...	--	--	.53	.00	.53	.02	--	--	--	--	--	--
AUG. 09...	--	--	.53	.01	.54	.00	--	--	--	--	--	--
SEP. 04...	--	--	.53	.01	.54	.06	--	--	--	--	--	--

07060500 White River at Calico Rock, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	.1	8.4	5	--	41	2.0	1.1	84	39	62	6.0
NOV. 21...	--	8.2	--	--	0	1.0	1.7	110	E23	--	--
DEC. 26...	--	--	--	--	1	--	--	E26	<3	E6	--
JAN. 24...	--	--	--	--	11	1.1	--	130	E52	E64	--
MAR. 07...	--	--	--	--	2	.6	--	E1200	E540	E140	--
APR. 19...	.1	--	--	1	6	2.2	--	E1000	140	63	--
MAY 24...	--	--	--	--	--	1.5	--	1500	350	230	--
JUNE 19...	--	--	--	--	12	.8	--	E6000	540	410	--
JULY 17...	--	--	--	--	6	.6	--	250	E20	120	--
AUG. 09...	--	--	--	--	13	.7	--	1200	270	600	--
SEP. 04...	--	--	--	--	8	1.2	--	E10000	E1300	920	--

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT. 12...	<10	1	--	<10	0	3	--	2	<.5	1	0
APR. 19...	<10	2	<10	--	6	10	--	4	<.5	10	20
SEP. 04...	--	--	--	--	--	--	0	--	--	--	--

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT. 12...	6680	--	--	--	295	8.4	17.0	7.7	79	--
NOV. 21...	7020	--	--	--	240	--	9.0	9.5	82	--
DEC. 26...	4340	156	0	128	270	8.1	8.0	10.5	88	2.0
JAN. 24...	13200	116	4	102	235	8.6	9.0	10.1	87	.5
MAR. 07...	14800	158	0	130	262	8.1	10.0	10.6	96	2.0
APR. 19...	30800	154	0	126	234	7.7	11.0	9.0	82	4.9
MAY 24...	31000	160	0	131	258	8.1	15.0	8.6	87	2.0
JUNE 19...	15700	148	8	135	270	8.5	17.0	--	--	.8
JULY 17...	21100	146	0	120	262	7.9	15.0	8.6	85	2.9
AUG. 09...	18600	148	0	121	249	7.8	15.0	--	--	3.8
SEP. 04...	24000	148	0	121	253	7.8	16.5	7.0	74	3.8

PERIPHYTON ANALYSES

JULY 17, 1973, COLLECTED BY PLASTIC STRIP SAMPLER ATTACHED TO BOAT DOCK BELOW BRIDGE ON JUNE 19, 1973, AND REMOVED JULY 17, 1973

BIOMASS Dry Weight g/m²	BIOMASS Ash Weight g/m²	CODOMINANT(S)
10	1.4	*Diatoma* sp. *Achnanthes* sp. *Ulothrix* sp.

BENTHIC INVERTEBRATE ANALYSES

JULY 17, 1973, COLLECTED BY MULTIPLE-PLATE SAMPLER ATTACHED TO BOAT DOCK BELOW BRIDGE ON JUNE 19, 1973, AND REMOVED JULY 17, 1973

TAXA	NO.	BIOMASS g/m²
Amphipoda	1	1.29
Ephemeroptera	6	
Plecoptera	1	
Diptera (Chironomidae)	40	
Diptera (Simuliidae)	3	

07060500 White River at Calico Rock, Ark.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	14.0	15.0	14.5	9.5	8.5	8.0	6.5	7.0	6.5	9.5	5.5
2	20.0	15.0	15.5	15.0	10.0	9.0	6.5	5.5	6.5	6.0	10.5	6.5
3	18.5	15.5	15.0	14.0	10.5	9.0	6.5	6.5	6.5	6.0	11.5	7.0
4	18.0	15.0	14.0	13.0	10.0	9.0	6.5	6.0	6.5	5.5	11.5	11.0
5	16.0	13.5	14.0	11.5	10.5	9.5	6.0	5.5	6.5	6.0	14.0	9.0
6	15.0	14.5	12.0	11.5	10.0	9.0	5.0	3.5	6.0	6.0	11.0	6.5
7	14.5	14.0	13.0	11.5	--	--	5.5	3.5	5.5	6.0	8.5	6.5
8	16.5	13.5	13.0	11.5	--	--	6.0	5.0	5.5	5.5	9.0	7.0
9	17.0	14.5	12.0	11.5	--	--	5.5	5.0	5.0	5.0	9.0	7.0
10	16.0	14.5	13.0	11.5	--	--	6.0	5.0	5.0	4.5	10.5	7.0
11	16.0	14.0	12.0	11.0	--	--	5.5	4.0	5.5	5.0	13.5	9.0
12	17.0	15.0	11.5	11.0	--	--	5.5	4.0	5.5	5.5	13.0	11.0
13	16.5	15.5	12.0	11.0	--	--	6.0	4.0	6.5	5.5	11.5	9.5
14	15.5	14.0	11.5	10.5	7.0	4.5	6.5	4.0	6.5	5.5	11.0	10.0
15	16.0	13.5	10.5	10.0	6.5	5.5	7.0	4.5	5.5	5.0	10.5	9.0
16	18.0	14.5	10.0	9.0	6.5	4.5	8.5	6.0	5.5	5.0	--	--
17	16.5	15.0	10.5	9.5	6.5	4.0	10.0	8.0	5.0	4.5	--	--
18	15.0	13.0	--	--	6.0	4.5	9.5	7.0	5.5	4.5	--	--
19	13.5	11.5	--	--	8.5	6.0	8.5	6.5	6.0	5.0	10.0	8.5
20	13.5	12.0	--	--	8.0	6.5	8.5	7.0	6.5	5.5	9.5	8.0
21	13.5	12.0	--	--	7.0	6.5	8.5	8.0	6.0	5.0	9.5	6.5
22	14.0	13.0	--	--	7.0	6.0	8.0	6.5	6.0	5.0	9.0	7.0
23	14.0	13.0	--	--	7.0	6.0	7.0	6.0	6.5	5.5	9.0	7.0
24	13.0	12.0	--	--	6.5	6.0	6.5	6.0	6.5	5.0	8.5	7.0
25	14.0	11.5	--	--	7.0	6.0	7.0	6.0	7.0	6.0	11.0	8.0
26	13.0	12.0	--	--	8.0	6.5	7.0	6.0	8.5	6.0	11.0	10.0
27	12.0	11.5	9.0	8.0	8.0	5.5	8.0	6.5	4.5	6.0	10.0	9.5
28	12.0	11.0	11.0	9.0	8.0	6.0	8.0	5.5	4.5	5.5	10.0	8.5
29	13.5	12.0	10.0	9.0	9.5	8.0	5.5	4.5	--	--	10.5	9.5
30	13.5	13.5	10.0	9.0	10.5	9.0	6.0	4.5	--	--	11.0	9.5
31	14.5	13.5	--	--	9.0	8.0	6.5	5.5	--	--	10.5	9.5
AVG	15.0	13.5	--	--	--	--	7.0	5.5	6.5	5.5	10.5	8.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	10.5	10.0	--	--	13.0	11.0	14.0	11.5	15.5	13.5	15.5	14.0
2	10.0	9.0	--	--	13.0	12.0	14.5	11.5	14.5	13.0	15.0	14.0
3	10.0	8.5	--	--	14.0	12.0	14.5	11.5	14.5	13.0	15.5	13.5
4	9.0	8.5	12.0	10.0	14.5	12.0	15.5	12.0	15.0	13.0	15.0	14.0
5	10.0	8.0	11.0	9.5	15.0	13.5	19.5	15.0	15.5	13.0	14.5	14.0
6	10.0	9.0	10.5	10.0	15.0	13.5	16.0	11.5	15.0	13.0	15.0	14.5
7	9.5	8.5	14.0	10.0	15.0	13.5	14.0	11.5	15.0	13.5	14.5	14.5
8	9.0	8.5	14.5	13.5	16.5	14.0	16.0	13.5	15.5	13.5	15.0	14.5
9	9.0	8.0	14.0	11.0	17.0	13.5	14.0	12.0	14.5	13.5	16.0	14.5
10	9.0	8.0	12.0	11.0	23.5	17.0	13.5	12.0	--	--	16.0	15.0
11	--	--	12.0	11.5	25.5	17.0	14.5	12.0	--	--	16.0	15.5
12	--	--	12.0	11.0	23.0	15.0	14.5	13.0	--	--	15.5	15.0
13	--	--	--	--	19.0	13.5	14.0	12.0	15.0	14.0	15.5	14.5
14	--	--	--	--	15.0	13.0	13.5	12.0	15.0	13.5	15.0	14.5
15	--	--	--	--	16.0	13.0	13.5	13.0	15.0	13.5	15.5	14.5
16	--	--	--	--	16.0	13.0	13.5	12.0	14.5	14.0	16.0	15.0
17	10.5	9.5	12.0	10.5	15.0	14.0	14.0	12.0	15.0	13.5	15.5	14.5
18	10.5	10.0	11.5	10.5	--	--	14.0	12.0	15.5	13.5	15.5	14.0
19	10.0	9.5	11.5	10.5	16.5	13.5	14.0	13.0	15.5	14.0	15.5	14.5
20	13.5	10.0	12.0	10.5	15.5	13.0	15.0	12.0	15.5	14.0	15.5	15.0
21	14.5	13.0	11.5	11.0	15.5	13.0	15.0	13.0	15.5	14.0	16.5	15.5
22	15.5	13.5	11.5	10.5	15.0	12.0	14.5	13.0	15.5	13.5	16.5	15.5
23	--	--	11.5	10.5	14.0	11.5	15.0	13.5	15.0	14.0	16.0	15.5
24	--	--	11.5	10.5	14.5	11.5	14.5	13.0	15.0	13.5	16.0	15.0
25	--	--	11.5	10.5	15.5	12.0	14.5	13.0	15.0	14.0	16.0	15.0
26	--	--	11.5	10.5	15.0	12.0	15.0	13.0	15.5	14.5	--	--
27	--	--	15.0	12.0	14.5	11.5	14.5	13.5	15.5	14.5	--	--
28	--	--	14.5	13.5	14.5	11.5	14.5	13.0	15.5	14.0	--	--
29	--	--	14.0	13.0	14.0	11.5	15.0	13.0	15.5	14.0	--	--
30	--	--	13.5	11.5	13.5	11.0	15.0	13.0	15.0	14.0	--	--
31	--	--	13.0	11.5	--	--	15.5	13.5	15.5	14.0	--	--
AVG	--	--		--	16.0	13.0	14.5	12.5	15.0	13.5	15.5	14.5

07060660 White River at Sylamore, Ark.

LOCATION.--Lat 35°57'00", long 92°06'40", in N½ sec.12, T.15 N., R.11 W., Izard County, temperature recorder on right bank, 0.8 mi (1.3 km) upstream from ferry at Sylamore, 0.8 mi (1.3 km) upstream from South Sylamore Creek, and 8.5 mi (13.7 km) downstream from Wideman Creek.

DRAINAGE AREA.--10,238 mi² (26,516 km²).

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1973.

EXTREMES.--Current year:
Water temperatures: Maximum, 25.0°C June 11; minimum, 3.5°C Dec. 15, 17, Jan. 11.

Period of record:
Water temperatures: Maximum, 30.5°C July 6, 1971; minimum, 1.0°C Feb. 9, 1971.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	15.5	14.5	9.5	7.0	--	--	7.0	6.5	9.0	6.0
2	--	--	15.0	14.5	10.0	7.0	--	--	7.0	6.5	9.0	8.0
3	19.0	15.0	14.5	14.0	11.0	8.5	--	--	6.5	6.0	11.5	9.0
4	21.0	16.0	14.0	13.0	10.5	8.0	--	--	6.0	6.0	11.5	11.0
5	18.0	14.5	13.5	12.0	9.0	8.0	--	--	6.5	6.0	14.5	10.0
6	15.0	14.0	12.0	11.0	9.0	8.5	--	--	7.0	6.0	11.5	9.0
7	15.0	14.0	12.0	11.5	8.5	8.0	--	--	6.0	5.5	9.5	8.0
8	17.5	13.0	12.0	11.0	8.0	6.5	--	--	5.5	5.0	9.0	8.5
9	18.0	14.5	11.5	11.0	5.0	4.0	--	--	5.5	4.5	9.5	8.0
10	16.0	14.5	11.5	11.5	7.0	4.5	--	--	[illegible]	4.5	10.5	8.0
11	15.5	14.5	--	--	7.0	5.5	4.5	3.5	5.5	4.5	13.5	9.5
12	18.0	14.5	--	--	6.0	4.0	5.0	4.0	5.5	5.0	--	--
13	18.0	16.5	--	--	6.0	5.0	5.5	4.0	6.0	5.5	--	--
14	16.5	14.0	--	--	5.0	4.0	7.0	4.0	6.0	5.5	--	--
15	18.0	13.5	--	--	4.0	3.5	6.5	4.5	5.5	5.0	--	--
16	20.0	14.5	--	--	4.5	4.0	8.5	6.0	5.0	4.5	--	--
17	17.0	16.0	--	--	6.5	3.5	9.5	8.5	5.0	4.5	--	--
18	16.0	12.0	--	--	--	--	9.5	8.0	5.0	5.0	--	--
19	14.0	11.5	--	--	--	--	8.0	7.0	5.5	5.0	10.5	9.0
20	14.0	11.5	--	--	--	--	9.0	8.0	6.0	5.5	10.0	8.0
21	13.0	12.0	--	--	6.5	5.5	8.0	7.0	5.5	5.5	9.0	7.0
22	13.5	13.0	--	--	6.0	6.0	7.0	6.0	5.5	5.5	9.0	8.5
23	14.5	13.0	--	--	6.5	5.5	7.0	6.0	6.0	5.0	9.0	8.5
24	13.0	11.5	--	--	6.0	6.0	6.5	6.0	6.5	5.5	9.0	8.0
25	13.0	11.5	--	--	6.5	6.0	7.0	6.0	7.0	6.0	10.0	8.5
26	13.0	11.5	--	--	8.0	5.0	8.0	7.0	9.0	6.5	10.5	9.0
27	12.0	11.5	9.0	7.0	7.0	4.5	8.0	5.0	7.0	5.5	10.0	10.0
28	13.5	11.0	9.0	8.0	6.5	6.5	5.0	4.5	6.5	5.5	10.0	9.0
29	--	--	9.0	8.0	9.0	6.5	--	--	--	--	10.0	9.5
30	--	--	9.0	8.5	10.5	8.5	--	--	--	--	11.0	10.0
31	15.0	13.5	--	--	9.0	6.5	6.5	5.0	--	--	11.0	10.0
AVG	15.5	13.5	--	--	7.5	6.0	--	--	6.0	5.5	--	--

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	11.0	10.0	11.5	10.5	13.5	12.0	14.0	12.0	15.0	14.0	--	--
2	10.5	9.5	13.0	10.5	14.5	13.5	14.0	13.0	14.5	13.5	--	--
3	10.0	9.0	13.0	12.0	14.5	13.5	14.5	13.0	14.0	13.5	--	--
4	9.0	9.0	13.0	11.0	15.0	14.0	14.5	13.5	14.5	14.0	--	--
5	10.0	8.5	12.0	11.0	15.5	14.5	21.5	14.5	14.5	14.0	--	--
6	10.0	9.5	12.0	11.0	16.0	14.5	--	--	14.5	13.5	14.5	14.5
7	10.0	9.0	13.5	11.0	16.0	14.5	--	--	14.5	13.5	14.5	14.5
8	9.5	9.0	14.5	13.5	18.0	14.5	--	--	15.0	14.0	15.0	14.5
9	--	--	--	--	19.0	15.5	--	--	15.0	14.0	15.0	14.5
10	--	--	--	--	22.0	16.5	--	--	14.0	14.0	15.0	15.0
11	--	--	--	--	25.0	21.5	--	--	15.0	13.5	15.5	15.0
12	--	--	--	--	24.0	19.5	--	--	15.0	14.5	15.5	15.5
13	--	--	--	--	21.5	15.5	--	--	15.5	14.5	15.5	15.0
14	--	--	--	--	16.0	14.0	--	--	14.5	14.0	15.0	14.5
15	--	--	--	--	18.0	14.5	--	--	15.0	14.0	15.5	14.5
16	--	--	12.0	11.5	18.0	14.5	--	--	14.5	14.0	14.5	14.0
17	--	--	11.5	11.5	17.0	15.0	--	--	14.5	13.5	14.5	13.5
18	--	--	11.5	11.5	16.5	14.0	--	--	14.5	13.5	14.5	13.5
19	11.0	10.0	11.5	11.0	18.5	15.0	--	--	--	--	--	--
20	13.0	10.5	11.5	11.0	17.0	14.5	--	--	--	--	--	--
21	14.5	13.0	11.5	11.0	17.0	14.0	--	--	--	--	16.0	15.0
22	15.0	14.0	11.0	11.0	15.5	13.5	--	--	15.0	14.5	16.0	16.0
23	15.5	15.0	11.0	11.0	15.0	13.5	--	--	15.0	14.5	16.5	16.0
24	15.0	14.0	11.5	11.0	15.0	13.5	--	--	15.0	14.5	16.0	15.0
25	14.5	13.0	11.5	11.5	--	--	--	--	15.0	14.5	16.0	15.5
26	13.0	11.5	13.0	11.5	--	--	--	--	15.0	14.5	16.0	15.5
27	13.5	12.0	15.0	13.0	--	--	--	--	15.0	14.5	16.5	16.0
28	13.0	10.5	15.0	14.0	--	--	14.5	14.0	--	--	--	--
29	10.5	10.0	16.0	14.0	--	--	14.5	14.0	--	--	--	--
30	11.5	10.5	14.5	13.5	13.0	11.5	14.5	13.5	--	--	--	--
31	--	--	14.5	12.0	--	--	15.0	14.0	--	--	--	--
AVG	--	--	--	--	17.0	14.5	--	--	--	--	--	--

07060710 North Sylamore Creek near Fifty Six, Ark.
(Hydrologic bench-mark station)

LOCATION.--Lat 35°59'30", long 92°12'50", in SW¼NW¼ sec.25, T.16 N., R.12 W., Stone County, at gaging station on right bank, 30 ft (9 m) upstream from bridge on Ozark National Forest service road, 200 ft (61 m) downstream from Gunner Creek, 2.7 mi (4.3 km) north of Fifty Six, and 7.0 mi (11.3 km) upstream from South Sylamore Creek.

DRAINAGE AREA.--58.4 mi² (151.3 km²).

PERIOD OF RECORD.--Chemical analyses: November 1966 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT. 13...	3.6	6.0	0	10	40	7.1	2.0	1.1	160	0	131	5.4
NOV. 22...	14	6.7	10	0	45	5.7	2.0	1.1	164	0	134	7.0
DEC. 27...	15	8.1	--	30	43	5.6	1.7	.9	154	0	126	1.4
JAN. 25...	87	6.9	--	30	35	4.4	1.7	.9	128	0	105	7.2
MAR. 08...	174	6.5	20	10	36	3.6	.9	.8	124	0	102	6.4
APR. 19...	210	6.4	40	10	38	3.3	1.2	1.2	--	--	--	6.0
MAY 25...	28	6.7	20	10	51	5.3	1.2	.8	172	0	--	5.0
JUNE 19...	15	8.1	10	0	50	5.7	1.2	.9	--	--	--	5.6
JULY 17...	9.4	8.0	0	20	49	6.3	1.5	.9	--	--	--	5.0
AUG. 10...	13	8.0	--	--	46	6.2	1.4	.7	--	--	--	6.3
SEP. 04...	10	8.3	--	--	43	6.0	1.0	.9	--	--	--	4.3

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)
OCT. 13...	1.3	.0	.00	--	--	.00	168	171	.23	1.63	<1	130
NOV. 22...	1.1	.0	.00	--	--	.00	159	--	.22	6.01	--	140
DEC. 27...	.8	.2	.00	--	--	.00	155	--	.21	6.28	--	130
JAN. 25...	1.0	.1	.02	--	--	.00	128	--	.17	30.1	--	100
MAR. 08...	1.0	.0	.02	--	--	.01	106	--	.14	49.8	--	100
APR. 19...	.9	.0	.02	--	--	.07	122	--	.17	69.2	--	110
MAY 25...	2.2	.1	.00	.00	.00	.01	167	--	.23	12.6	--	149
JUNE 19...	2.1	.1	.00	.00	.00	.02	170	--	.23	6.88	--	140
JULY 17...	2.4	.1	.03	.00	.03	.02	180	--	.24	4.57	--	150
AUG. 10...	2.3	.0	.06	.00	.06	.08	153	--	.21	5.37	--	140
SEP. 04...	2.7	1.4	.06	.00	.06	.03	154	--	.21	4.16	--	130

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	TUR-BID-ITY (JTU)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 13...	0	3	.1	8.3	2	2	--	--	3.2	1.3	7.0
NOV. 22...	1	3	.1	8.1	2	3	--	--	.6	2.1	--
DEC. 27...	4	3	.1	8.1	2	3	--	--	--	2.0	--
JAN. 25...	0	3	.1	7.9	2	9	--	--	1.3	2.6	--
MAR. 08...	4	2	.0	8.0	5	3	--	10	.6	2.0	--
APR. 19...	--	2	.1	--	2	80	--	0	2.0	--	--
MAY 25...	0	2	.0	--	1	--	1	--	1.0	--	--
JUNE 19...	--	2	.0	--	1	--	1	--	.8	--	--
JULY 17...	--	2	.1	--	1	--	1	--	.2	--	--
AUG. 10...	--	2	.1	--	--	--	1	7	.6	--	--
SEP. 04...	--	3	.1	--	1	--	2	--	.7	--	--

07060710 North Sylamore Creek near Fifty Six, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)
OCT.									
13...	<10	0	--	<10	0	0	1	<.5	0
APR.									
19...	<10	0	<10	--	2	10	3	<.5	10

DATE	DIS-SOLVED ZINC (ZN) (UG/L)	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90 /Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90 /Y90 (PC/L)	DIS-SOLVED URANIUM (U) (UG/L)
OCT.								
13...	5	<1.0	<.4	1.7	<.4	1.6	<.4	.20
APR.								
19...	20	--	--	--	--	--	--	--

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
13...	3.6	--	--	--	295	7.5	18.5	6.8	72	--
NOV.										
22...	16	--	--	--	285	--	7.5	10.5	96	--
DEC.										
27...	15	152	0	125	255	8.1	4.5	11.2	86	1.9
JAN.										
25...	87	128	0	105	234	7.9	6.0	11.0	89	2.6
MAR.										
08...	176	116	0	95	213	7.9	9.5	11.9	95	2.3
APR.										
19...	215	128	0	105	210	7.7	13.5	9.3	88	4.1
MAY										
25...	26	--	--	141	270	8.1	18.0	9.8	112	2.2
JUNE										
19...	15	168	0	138	272	8.3	19.5	--	--	1.3
JULY										
17...	9.6	170	0	140	269	8.0	21.0	7.9	88	2.6
AUG.										
10...	13	166	0	136	272	7.2	23.5	--	--	17
SEP.										
04...	12	164	0	135	266	8.2	23.5	9.6	116	1.7

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
OCT.			
13...	E400	3	E200
NOV.			
22...	42	7	0
DEC.			
27...	70	0	E3
JAN.			
25...	14	2	21
MAR.			
08...	20	23	--
APR.			
19...	100	320	330
MAY			
25...	>160	130	160
JUNE			
19...	350	62	>200
JULY			
17...	320	E25	370
AUG.			
10...	E630	E87	E400
SEP.			
04...	E6300	E13	>500

07060710 North Sylamore Creek near Fifty Six, Ark.--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEARS OCTOBER 1971 TO SEPTEMBER 1973

FEBRUARY 16, 1972, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON JAN. 11, 1972, AND REMOVED FEB. 16, 1972

EPHEMEROPTERA	NO.	PLECOPTERA	NO.	ODONATA	NO.	NEUROPTERA	NO.
Stenonema sp.	10	*Isoperla* sp.	1	*Lampus* sp.	1	*Corydalus* sp.	1
Isonychia sp.	4						

DIVERSITY

1.66

MARCH 22, 1972, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON FEB. 16, 1972, AND REMOVED MAR. 22, 1972

DECAPODA	NO.	EPHEMEROPTERA	NO.	PLECOPTER	NO.	ODONATA	NO.
Orconectes sp.	2	*Stenonema* sp.	6	*Isoperla* sp.	1	*Argia* sp.	1
		Caenis sp.	1				

COLEOPTERA	NO.	DIPTERA	NO.	GASTROPODA	NO.
Psephenus sp.	1	*Pentaneura* sp.	1	Bulimidae	50
Ectopria sp.	3				

DIVERSITY

2.56

MAY 5, 1972, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61M) BELOW BRIDGE ON MAR. 22, 1972, AND REMOVED MAY 5, 1972

DECAPODA	NO.	EPHEMEROPTERA	NO.	PLECOPTERA	NO.
Orconectes sp.	1	*Stenonema* sp.	8	*Acroneuria* sp.	1
		Tricorythidae sp.	2		
		Isonychia sp.	2		

TRICHOPTERA	NO.	GASTROPODA	NO.
Helicopsyche sp.	1	Bulimidae	35
Cheumatopsyche sp.	1		

DIVERSITY

2.04

JUNE 9, 1972, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON MAY 5, 1972, AND REMOVED JUNE 9, 1972

DECOPODA	NO.	EPHEMEROPTERA	NO.	HEMIPTERA	NO.
Orconectes sp.	3	*Stenonema* sp.	4	*Metrobates* sp.	1
Palaemonetes sp.	18			*Hesperocorixa* sp.	1

COLEOPTERA	NO.	DIPTERA	NO.
Dineutus sp.	5	*Polypedium* sp.	3
Tropisternus sp.	2		
Hydroporus sp.	7		

DIVERSITY

2.52

AUGUST 25, 1972, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON JULY 20, 1972, AND REMOVED AUG. 25, 1972

COLEOPTERA	NO.	GASTROPODA	NO.
Psephenus sp.	1	Bulimidae	81

DIVERSITY

0.0

SEPTEMBER 27, 1972, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON AUG. 25, 1972, AND REMOVED SEPT. 27, 1972

DECAPODA	NO.	EPHEMEROPTERA	NO.	ODONATA	NO.
Orconectes sp.	1	*Stenonema* sp.	10	*Boyeria* sp.	1
		Isonychia sp.	1		

COLEOPTERA	NO.	DIPTERA	NO.	GASTROPODA	NO.
Psephenus sp.	25	*Simulium* sp.	1	Bulimidae	203

DIVERSITY

1.32

07060710 North Sylamore Creek near Fifty Six, Ark.--Continued

BENTHIC INVERTEBRATE ANALYSES, WATER YEARS OCTOBER 1971 TO SEPTEMBER 1973

NOVEMBER 22, 1972, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON SEPT. 13, 1972, AND REMOVED NOV. 22, 1972

AMPHIPODA	NO.	DECAPODA	NO.	EPHEROPTERA	NO.	PLECOPTERA	NO.
Gammarus sp.	5	*Orconectes* sp.	3	*Stenonema* sp. *Epeorus* sp.	12 1	*Acroneuria* sp.	1

NEUROPTERA	NO.	TRICHOPTERA	NO.	GASTROPODA	NO.
Corydalus sp.	1	*Helicopsyche* sp.	1	Bulimidae	137

DIVERSITY

1.31

DECEMBER 27, 1972, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON NOV. 22, 1972, AND REMOVED DEC. 27, 1972

DECAPODA	NO.	EPHEMEROPTERA	NO.	PLECOPTERA	NO.	GASTROPODA	NO.
Orconectes sp.	2	*Stenonema* sp.	8	*Taneopteryx* sp.	2	Bulimidae	97

DIVERSITY

0.72

DECEMBER 27, 1972, COLLECTED BY A MULTIPLE-PLATE SAMPLER PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON NOV. 22, 1972, AND REMOVED DEC. 27, 1972

EPHEMEROPTERA	NO.	PLECOPTERA	NO.
Stenonema sp. *Baetis* sp.	1 1	*Taneopteryx* sp.	3

DIVERSITY

1.37

JANUARY 25, 1973, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON DEC. 27, 1972, AND REMOVED JAN. 25, 1973

DECOPODA	NO.	EPHEROPTERA	NO.	GASTROPODA	NO.
Orconectes sp.	3	*Leptophlebia* sp.	2	Bulimidae	3

DIVERSITY

0.76

MARCH 8, 1973, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON JAN. 25, 1973, AND REMOVED MAR. 8, 1973

DECOPODA	NO.	EPHEMEROPTERA	NO.	PLECOPTERA	NO.	TRICHOPTERA	NO.
Orconectes sp.	3	*Stenonema* sp. *Isonychia* sp.	12 1	*Nemoura* sp.	1	*Helicopsyche* sp.	1

COLEOPTERA	NO.	DIPTERA	NO.	GASTROPODA	NO.
Psephenus sp.	1	*Cricotopus* sp.	1	Bulimidae *Pleurocera* sp.	65 2

DIVERSITY

1.56

MAY 25, 1973, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON APR. 19, 1973, AND REMOVED MAY 25, 1973

DECAPODA	NO.	EPHEMEROPTERA	NO.	TRICHOPTERA	NO.	GASTROPODA	NO.
Orconectes sp.	1	*Stenonema* sp.	3	*Helicopsyche* sp.	2	Bulimidae	37

AUGUST 10, 1973, COLLECTED BY A STONE-FILLED WIRE BASKET PLACED IN DEEP RIFFLE 200 FT (61 M) BELOW BRIDGE ON JULY 17, 1973, AND REMOVED AUG. 10, 1973

EPHEMEROPTERA	NO.	NEUROPTERA	NO.	TRICHOPTERA	NO.	DIPTERA	NO.
Isonychia sp. *Stenonema* sp. *Baetis* sp.	12 26 3	*Corydalus* sp.	2	*Cheumatopsyche* sp.	2	*Polypedilum* sp. *Simulium* sp.	26 1

DIVERSITY

2.06

07060710 North Sylamore Creek near Fifty Six, Ark.--Continued

PERIPHYTON ANALYSES, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1973

DECEMBER 27, 1972, COLLECTED BY PLASTIC STRIP SAMPLER PLACED IN RIFFLE 300 FT (91 M) BELOW BRIDGE ON NOV. 22, 1972, AND REMOVED DEC. 27, 1972

BIOMASS		CODOMINANT(S)
Dry Weight g/m^2	Ash Weight g/m^2	
2.1	0.7	Gomphonema sp. Synedra sp.

COMMON NAMES OF THE PRECEDING ORDERS

AMPHIPODA (Scuds, Sideswimmers)
ANNELIDA (Aquatic Earthworms, Leeches)
COELENTERATA (Hydroids, Jellyfish)
COLEOPTERA (Beetles)
DECAPODA (Crayfish, Shrimp)
DIPTERA (Flies, Mosquitoes, Midges)
EPHEMETROPTERA (Mayflies)
GASTROPODA (Snails, Limpets)
HEMIPTERA (Bugs)
HYDRACARINA (Water Mites)
NEUPROPTERA (Alderflies, Dobsonflies, Fishflies)
ODONATA (Dragonflies, Damselflies)
PELECYPODA (Clams, Mussels)
PLECOPTERA (Stoneflies)
TRICHOPTERA (Caddis flies)

SUSPENDED-SEDIMENT FOR SELECTED DAYS

DATE	SUS-PENDED SEDI-MENT (MG/L)	SUS-PENDED SEDI-MENT DIS-CHARGE (T/DAY)	SUS. SED. SIEVE DIAM. % FINER THAN .062 MM
OCT.			
13...	7	.07	--
NOV.			
22...	7	.26	--
DEC.			
27...	16	.65	--
JAN.			
25...	2	.47	--
MAR.			
08...	11	5.2	--
APR.			
19...	16	9.1	--
MAY			
25...	12	.91	--
JUNE			
19...	8	.32	--
JULY			
17...	6	.15	--
AUG.			
10...	21	.74	80
SEP.			
04...	25	.67	95

07064000 Black River near Corning, Ark.

LOCATION.--Lat 36°24'07", long 90°32'29", in SW¼NE¼ sec.4, T.20 N., R.5 E., Clay County, at gaging station near left bank on downstream side of bridge on U.S. Highway 62, 2.2 mi (3.5 km) east of Corning, 11.9 mi (19.1 km) downstream from Cane Creek, and at mile 152.2 (244.9 km).

DRAINAGE AREA.--1,749 mi² (4,530 km²).

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1960, October 1965 to September 1966, October 1970 to September 1973.
Water temperatures: October 1956 to September 1959.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT.												
04...	--	25	--	--	--	--	28	--	4.0	--	--	--
16...	--	550	--	--	--	--	113	--	4.5	--	--	--
31...	--	1920	1300	330	16	10	63	10	3.5	.20	.05	117
NOV.												
14...	--	4110	--	--	--	--	49	--	3.0	--	--	--
29...	--	3660	--	--	--	--	63	--	4.5	--	--	--
DEC.												
13...	6300	--	--	--	--	--	40	--	2.5	--	--	--
JAN.												
03...	--	--	--	--	--	--	66	--	3.5	--	--	--
15...	--	--	--	--	--	--	64	--	4.0	--	--	--
30...	--	4850	505	40	13	7.0	53	4.0	4.0	.10	.09	104
FEB.												
13...	--	2850	--	--	--	--	68	--	5.5	--	--	--
MAR.												
21...	--	4180	--	--	--	--	56	--	4.0	--	--	--
APR.												
04...	--	6010	--	--	--	--	50	--	4.0	--	--	--
16...	--	4590	--	--	--	--	66	--	3.0	--	--	--
MAY												
15...	--	4570	--	--	--	--	47	--	2.0	--	--	--
JUNE												
20...	3400	--	--	--	--	--	79	--	3.5	--	--	--
JULY												
17...	--	1920	--	--	--	--	98	--	4.0	--	--	--
AUG.												
15...	--	1510	--	--	--	--	106	--	4.0	--	--	--
21...	--	851	670	199	26	14	120	7.0	5.0	.44	.03	145
SEP.												
05...	--	612	--	--	--	--	135	--	4.5	--	--	--
17...	--	811	--	--	--	--	127	--	4.5	--	--	--

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.												
04...	--	--	--	--	142	7.2	19.0	--	45	5.4	57	1.3
16...	--	--	--	--	267	7.1	21.0	--	65	8.0	89	1.8
31...	56	173	81	40	160	7.3	21.0	70	58	8.1	91	1.8
NOV.												
14...	--	--	--	--	107	7.3	14.0	--	<25	7.1	69	1.2
29...	--	--	--	--	143	7.0	8.0	--	<25	9.8	82	1.2
DEC.												
13...	--	--	--	--	89	7.0	2.0	--	<25	11.6	84	2.4
JAN.												
03...	--	--	--	--	138	7.2	5.0	--	35	10.9	86	1.7
15...	--	--	--	--	149	7.5	5.0	--	<25	13.2	103	2.4
30...	17	121	61	32	121	7.4	5.0	60	30	10.9	86	1.5
FEB.												
13...	--	--	--	--	158	7.8	7.0	--	<25	12.0	98	3.8
MAR.												
21...	--	--	--	--	118	7.1	10.0	--	35	9.1	81	1.1
APR.												
04...	--	--	--	--	113	7.4	11.0	--	<25	8.2	74	2.0
16...	--	--	--	--	143	7.6	17.0	--	<25	10.0	103	--
MAY												
15...	--	--	--	--	117	7.5	19.0	--	27	10.0	106	3.1
JUNE												
20...	--	--	--	--	155	7.8	25.0	--	15	9.3	111	3.3
JULY												
17...	--	--	--	--	180	7.9	24.0	--	31	6.9	81	.9
AUG.												
15...	--	--	--	--	209	7.9	24.0	--	28	6.4	76	.4
21...	40	185	120	64	234	8.0	27.0	4	27	6.5	81	.2
SEP.												
05...	--	--	--	--	248	8.0	24.0	--	31	6.8	81	.6
17...	--	--	--	--	238	8.1	21.0	--	25	8.0	89	.8

07064000 Black River near Corning, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	12300	>2000	10	<2	<100	<5	30	13	<.1	<50	13
NOV.												
14...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
03...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
30...	330	37	78	<3	3	<100	<5	150	7	<.8	<50	5
FEB.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
04...	537	108	--	--	--	--	--	--	--	--	--	--
16...	190	7	--	--	--	--	--	--	--	--	--	--
MAY												
15...	5800	30	--	--	--	--	--	--	--	--	--	--
JUNE												
20...	1000	250	--	--	--	--	--	--	--	--	--	--
JULY												
17...	<50	<6	--	--	--	--	--	--	--	--	--	--
AUG.												
15...	155	13	--	--	--	--	--	--	--	--	--	--
21...	460	--	500	<3	<2	<15	--	31	82	--	5	11
SEP.												
05...	250	12	--	--	--	--	--	--	--	--	--	--
17...	13	5	--	--	--	--	--	--	--	--	--	--

07068850 Current River near Pocahontas, Ark.

LOCATION.--Lat 36°17'55", long 90°51'30", in SE¼SE¼ sec.10, T.19 N., R.2 E., Randolph County, at bridge on U.S. Highway 67, 5.5 mi (8.8 km) northeast of Pocahontas.

DRAINAGE AREA.--2,606 mi² (6,750 km²).

PERIOD OF RECORD.--Chemical analyses: October 1954 to September 1958, October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
04...	2000	--	--	--	--	50	--	3.5	--	--	--	--
16...	1400	--	--	--	--	141	--	3.5	--	--	--	--
31...	3300	--	--	--	--	115	--	3.0	--	--	--	--
NOV.												
14...	6900	600	800	18	10	78	7.0	2.5	.25	.07	135	20
29...	4300	--	--	--	--	117	--	3.5	--	--	--	--
DEC.												
13...	3300	--	--	--	--	90	--	3.0	--	--	--	--
JAN.												
03...	--	--	--	--	--	99	--	3.0	--	--	--	--
15...	--	--	--	--	--	115	--	4.0	--	--	--	--
30...	7400	--	--	--	--	93	--	3.5	--	--	--	--
FEB.												
13...	--	170	36	25	12	112	9.0	3.5	.69	<.01	141	3
MAR.												
21...	--	--	--	--	--	80	--	3.5	--	--	--	--
APR.												
04...	8500	--	--	--	--	99	--	3.5	--	--	--	--
16...	--	--	--	--	--	106	--	3.5	--	--	--	--
MAY												
01...	--	--	--	--	--	76	--	3.0	--	--	--	--
15...	--	460	94	20	9.0	95	17	2.5	.20	.07	141	--
JUNE												
20...	--	--	--	--	--	143	--	3.0	--	--	--	--
JULY												
17...	2500	170	67	34	17	166	7.0	4.5	.26	.02	178	12
AUG.												
15...	2400	--	--	--	--	150	--	4.0	--	--	--	--
21...	--	--	--	--	--	167	--	4.0	--	--	--	--
SEP.												
05...	--	--	--	--	--	173	--	5.0	--	--	--	--
17...	--	--	--	--	--	178	--	4.5	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
04...	--	--	--	218	7.8	20.0	--	33	6.4	70	1.1	--
16...	--	--	--	310	7.7	20.0	--	25	8.9	97	1.9	--
31...	--	--	--	235	7.9	15.0	--	50	9.1	89	.6	--
NOV.												
14...	137	86	66	145	7.5	12.0	40	<25	8.2	76	.1	1220
29...	--	--	--	218	7.5	9.0	--	<25	10.4	90	.6	--
DEC.												
13...	--	--	--	163	7.5	4.0	--	<25	11.8	90	2.0	--
JAN.												
03...	--	--	--	180	7.4	8.0	--	<25	11.0	93	.9	--
15...	--	--	--	244	7.6	8.0	--	<25	12.0	101	2.1	--
30...	--	--	--	190	7.8	6.0	--	<25	16.9	136	6.5	--
FEB.												
13...	144	110	62	221	7.8	6.0	5	<25	11.6	93	.7	40
MAR.												
21...	--	--	--	149	7.3	12.0	--	<25	9.0	83	.8	--
APR.												
04...	--	--	--	190	7.8	10.0	--	<25	9.5	85	.5	70
16...	--	--	--	212	7.8	16.0	--	<25	9.7	98	--	<7
MAY												
01...	--	--	--	151	7.5	18.0	--	12	8.2	87	.8	990
15...	137	87	50	187	7.4	18.0	5	11	8.1	86	.9	88
JUNE												
20...	--	--	--	252	8.0	23.0	--	6	7.9	91	.8	270
JULY												
17...	190	160	84	285	8.1	24.0	0	4	8.1	96	.1	250
AUG.												
15...	--	--	--	278	8.2	23.0	--	9	8.3	96	.6	260
21...	--	--	--	304	8.3	26.0	--	3	8.6	101	1.1	60
SEP.												
05...	--	--	--	308	8.2	23.0	--	5	8.4	97	.4	90
17...	--	--	--	310	8.3	20.0	--	14	9.1	99	.8	77

07068850 Current River near Pocahontas, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
04...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
14...	1140	444	<3	<2	<100	<5	100	25	--	<50	80
29...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
03...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
13...	20	24	<3	<2	<30	<4	25	<5	<.3	<15	5
MAR.											
21...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	46	--	--	--	--	--	--	--	--	--	--
16...	<5	--	--	--	--	--	--	--	--	--	--
MAY											
01...	<4	--	--	--	--	--	--	--	--	--	--
15...	<4	4	<3	<2	<10	--	25	<10	<.1	18	16
JUNE											
20...	20	--	--	--	--	--	--	--	--	--	--
JULY											
17...	124	56	5	<2	30	--	4	6	<.1	<2	11
AUG.											
15...	8	--	--	--	--	--	--	--	--	--	--
21...	4	--	--	--	--	--	--	--	--	--	--
SEP.											
05...	45	--	--	--	--	--	--	--	--	--	--
17...	4	--	--	--	--	--	--	--	--	--	--

07068867 Fourche River near Middlebrook, Ark.

LOCATION.--Lat 36°28'50", long 90°56'01", Randolph County, at end of private road 0.9 mi (1.4 km) west of State Highway 115, 0.7 mi (1.1 km) south of Missouri-Arkansas State line, and 1.5 mi (2.4 km) north of Middlebrook.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
NOV. 20...	175	8.7	20	100	48	21	2.0	1.3	244	0
JAN. 03...	165	7.4	30	30	36	22	1.8	1.1	224	0
MAR. 19...	263	8.0	10	40	41	21	2.0	1.0	224	0
MAY 21...	125	6.4	150	30	44	24	1.9	1.0	256	0
JULY 16...	26	9.7	50	60	48	27	2.2	1.3	292	0
SEP. 10...	64	9.2	20	30	45	26	1.8	1.3	276	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS_ SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
NOV. 20...	200	11	2.8	.1	.11	--	--	--	--
JAN. 03...	184	6.0	2.6	.2	.09	--	--	--	--
MAR. 19...	184	13	1.4	.0	.27	--	--	--	--
MAY 21...	210	4.7	2.6	.0	.01	--	.00	.0	--
JULY 16...	239	5.7	3.0	.1	.08	.01	--	--	.09
SEP. 10...	226	5.2	3.1	.0	.14	.00	--	--	.14

DATE	AMMONIA NITRO-GEN (N) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
NOV. 20...	.00	.00	.33	200	.27	94.5	210	6	2
JAN. 03...	.02	.20	.01	175	.24	78.0	180	0	2
MAR. 19...	.00	.18	.01	181	.25	129	190	5	2
MAY 21...	.02	.06	.01	210	.29	70.9	210	0	2
JULY 16...	.01	.18	.05	242	.33	17.0	230	0	2
SEP. 10...	.04	.00	.03	236	.32	40.8	220	0	2

DATE	SODIUM AD-SORP-TION RATIO	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
NOV. 20...	.1	382	8.0	8.5	5	0	3.9	96	500
JAN. 03...	.1	358	7.9	5.5	10	1	4.5	80	430
MAR. 19...	.1	353	8.1	13.5	5	0	2.8	20	55
MAY 21...	.1	393	8.1	20.5	2	2	3.3	48	54
JULY 16...	.1	480	7.8	24.5	1	13	7.4	74	170
SEP. 10...	.1	428	8.1	24.0	2	1	3.5	190	600

07069170 Spring River near Thayer, Mo.

LOCATION.--Lat 36°30'10", long 91°31'31", in SE¼SE¼ sec.5, T.21 N., R.5 W., Oregon County, at bridge on country road, 0.6 mi (1.0 km) east of U.S. Highway 63, 0.2 mi (0.3 km) north of Missouri-Arkansas State line, and 1.1 mi (1.8 km) southeast of Thayer.

PERIOD OF RECORD.--Chemical analyses: December 1971 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
04...	--	--	--	--	--	115	--	3.0	--	--	--	--
16...	--	--	--	--	--	232	--	5.0	--	--	--	--
31...	--	--	--	--	--	199	--	4.5	--	--	--	--
NOV.												
14...	--	600	760	32	18	146	6.0	4.0	.77	.24	190	35
20...	143	--	--	46	23	203	8.8	3.2	.86	.03	--	--
29...	--	--	--	--	--	227	--	3.5	--	--	--	--
JAN.												
02...	248	--	--	60	24	196	5.2	2.1	.27	.01	--	--
03...	--	--	--	--	--	200	--	4.5	--	--	--	--
15...	--	--	--	--	--	206	--	3.0	--	--	--	--
30...	--	--	--	--	--	211	--	3.0	--	--	--	--
FEB.												
13...	--	62	10	43	27	204	5.0	3.5	.69	.02	220	5
MAR.												
07...	--	--	--	--	--	178	--	3.0	--	--	--	--
19...	316	--	--	42	23	197	7.6	1.3	.81	.02	--	--
21...	--	--	--	--	--	209	--	4.5	--	--	--	--
APR.												
04...	--	--	--	--	--	197	--	4.0	--	--	--	--
16...	--	--	--	--	--	165	--	3.0	--	--	--	--
MAY												
01...	--	--	--	--	--	176	--	3.5	--	--	--	--
15...	--	37	26	37	21	180	5.0	2.0	.36	.03	200	3
21...	337	--	--	43	23	191	9.1	2.9	.01	.03	--	--
JUNE												
20...	--	--	--	--	--	203	--	3.0	--	--	--	--
JULY												
16...	129	--	--	45	26	225	6.4	3.4	.01	.10	--	--
17...	--	83	13	45	26	224	4.0	4.0	.43	.02	229	16
AUG.												
15...	--	--	--	--	--	228	--	3.5	--	--	--	--
21...	--	--	--	--	--	236	--	3.5	--	--	--	--
SEP.												
05...	--	--	--	--	--	231	--	4.0	--	--	--	--
10...	51	--	--	52	28	243	5.2	2.6	.35	.06	--	--
17...	--	--	--	--	--	248	--	4.0	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
04...	--	--	--	467	8.0	20.0	--	18	8.8	97	1.1	--
16...	--	--	--	490	7.6	21.0	--	25	9.4	105	1.6	--
31...	--	--	--	409	7.9	15.0	--	46	8.1	80	2.5	--
NOV.												
14...	225	150	80	260	7.7	12.0	80	60	9.6	89	1.4	4350
20...	--	210	--	420	8.0	9.5	3	--	9.2	80	--	--
29...	--	--	--	386	7.8	13.0	--	<25	11.2	106	.9	--
JAN.												
02...	--	200	--	396	8.1	7.5	5	--	10.0	83	--	--
03...	--	--	--	363	7.8	8.0	--	<25	10.8	91	.7	--
15...	--	--	--	400	7.8	3.0	--	<25	11.8	87	1.1	--
30...	--	--	--	391	8.0	2.0	--	<25	11.8	86	1.5	--
FEB.												
13...	233	220	100	378	8.0	6.0	0	<25	10.8	87	.9	235
MAR.												
07...	--	--	--	333	8.0	17.0	--	<25	10.6	109	2.0	--
19...	--	200	--	420	8.1	13.5	5	--	7.4	70	--	--
21...	--	--	--	363	8.0	15.0	--	<25	11.4	112	.9	--
APR.												
04...	--	--	--	356	8.0	10.0	--	<25	11.0	97	.7	4300
16...	--	--	--	322	7.8	16.0	--	<25	9.6	96	--	15000
MAY												
01...	--	--	--	327	7.9	16.0	--	5	9.4	94	.9	8700
15...	203	180	92	324	7.8	16.0	0	3	10.6	106	1.0	913
21...	--	200	--	368	8.2	17.0	2	--	10.0	103	--	--
JUNE												
20...	--	--	--	356	8.1	20.0	--	2	10.6	115	1.0	26000
JULY												
16...	--	220	--	460	7.9	19.0	1	--	7.6	81	--	--
17...	243	220	112	370	8.1	18.0	0	2	9.6	102	1.0	625
AUG.												
15...	--	--	--	401	8.2	21.0	--	3	8.5	95	1.0	1100
21...	--	--	--	411	8.2	22.0	--	2	8.6	98	1.0	775
SEP.												
05...	--	--	--	401	8.1	21.0	--	6	8.1	90	1.7	4500
10...	--	250	--	405	8.0	21.0	1	--	7.1	79	--	--
17...	--	--	--	397	8.2	18.0	--	3	8.9	94	.7	800

07069170 Spring River near Thayer, Mo.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
04...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
14...	3400	600	<3	<2	<100	<5	30	12	--	<50	25
20...	50	190	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	64	72	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
13...	130	60	<3	<2	<30	<6	7	210	<.3	<15	15
MAR.											
07...	--	--	--	--	--	--	--	--	--	--	--
19...	570	260	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	1020	--	--	--	--	--	--	--	--	--	--
16...	8300	--	--	--	--	--	--	--	--	--	--
MAY											
01...	520	--	--	--	--	--	--	--	--	--	--
15...	153	20	<3	<2	<10	--	<10	<10	<.1	16	2
21...	16	30	--	--	--	--	--	--	--	--	--
JUNE											
20...	3000	--	--	--	--	--	--	--	--	--	--
JULY											
16...	140	310	--	--	--	--	--	--	--	--	--
17...	40	180	3	<2	20	--	<6	<5	<.1	<2	7
AUG.											
15...	86	--	--	--	--	--	--	--	--	--	--
21...	200	--	--	--	--	--	--	--	--	--	--
SEP.											
05...	--	--	--	--	--	--	--	--	--	--	--
10...	860	720	--	--	--	--	--	--	--	--	--
17...	347	--	--	--	--	--	--	--	--	--	--

07069260 Myatt Creek near Lanton, Mo.

LOCATION.--Lat 36°31'04", long 91°44'18", on line between secs.4 and 33, T.22 N., R.7 W., Howell County at bridge on Missouri State Highway 142, 3.5 mi (5.6 km) east of Lanton.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
04...	.00	--	--	--	--	111	--	4.0	--	--	--	--
16...	.00	--	--	--	--	216	--	4.0	--	--	--	--
31...	.00	--	--	--	--	179	--	3.0	--	--	--	--
NOV.												
14...	16	800	50	37	27	191	5.0	2.5	.78	.01	220	--
29...	8.0	--	--	--	--	234	--	3.0	--	--	--	--
DEC.												
13...	4.0	--	--	--	--	198	--	3.0	--	--	--	--
JAN.												
03...	37	--	--	--	--	192	--	3.5	--	--	--	--
15...	.00	--	--	--	--	226	--	4.0	--	--	--	--
30...	.00	--	--	--	--	193	--	3.5	--	--	--	--
FEB.												
13...	--	150	39	29	16	126	2.5	3.0	.68	.06	167	27
MAR.												
07...	20	--	--	--	--	163	--	3.0	--	--	--	--
21...	30	--	--	--	--	185	--	3.5	--	--	--	--
APR.												
04...	30	--	--	--	--	140	--	3.5	--	--	--	--
16...	30	--	--	--	--	140	--	3.0	--	--	--	--
MAY												
01...	--	--	--	--	--	154	--	2.5	--	--	--	--
15...	.00	90	10	36	19	160	5.0	2.5	.16	.04	179	1
JUNE												
20...	50	--	--	--	--	191	--	2.5	--	--	--	--
JULY												
17...	46	45	43	47	20	239	4.0	4.0	<.10	<.01	246	11
AUG.												
15...	--	--	--	--	--	247	--	4.0	--	--	--	--
21...	--	--	--	--	--	257	--	4.0	--	--	--	--
SEP.												
05...	--	--	--	--	--	246	--	4.5	--	--	--	--
17...	--	--	--	--	--	269	--	4.5	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
04...	--	--	--	448	7.6	22.0	--	15	9.0	103	2.0	--
16...	--	--	--	446	7.6	21.0	--	20	9.7	108	1.8	--
31...	--	--	--	363	7.9	15.0	--	38	7.5	76	.2	--
NOV.												
14...	219	200	92	318	7.8	12.0	15	<25	9.1	86	.2	160
29...	--	--	--	415	7.7	7.0	--	<25	10.2	84	.6	--
DEC.												
13...	--	--	--	305	7.9	5.0	--	<25	11.0	86	.7	--
JAN.												
03...	--	--	--	326	7.7	5.0	--	<25	11.1	87	.7	--
15...	--	--	--	406	7.7	2.0	--	<25	11.0	80	.8	--
30...	--	--	--	366	8.0	5.0	--	<25	11.5	90	.8	--
FEB.												
13...	194	160	72	267	7.8	8.0	30	35	11.0	93	1.5	900
MAR.												
07...	--	--	--	335	7.8	15.0	--	<25	11.6	112	1.7	--
21...	--	--	--	306	7.9	14.0	--	<25	10.5	102	.8	--
APR.												
04...	--	--	--	256	7.5	10.0	--	<25	11.1	98	1.2	20
16...	--	--	--	269	7.9	16.0	--	<25	10.0	100	--	7
MAY												
01...	--	--	--	284	7.8	17.0	--	2	9.6	98	.8	160
15...	180	160	86	294	7.8	15.0	0	1	10.6	102	1.0	95
JUNE												
20...	--	--	--	336	8.1	23.0	--	0	9.6	110	.6	300
JULY												
17...	257	230	118	404	8.0	24.0	0	3	7.5	89	1.4	--
AUG.												
15...	--	--	--	432	8.2	25.0	--	5	7.8	93	1.9	120
21...	--	--	--	449	8.2	24.0	--	3	7.5	89	1.6	60
SEP.												
05...	--	--	--	422	8.1	23.0	--	3	5.6	66	--	20
17...	--	--	--	452	8.2	21.0	--	6	8.0	89	--	<6

07069260 Myatt Creek near Lanton, Mo.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
04...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
14...	62	76	<3	<2	<100	<5	50	4	--	<50	22
29...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
03...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
13...	73	93	6	3	<30	<4	62	5	<.6	<15	40
MAR.											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	20	--	--	--	--	--	--	--	--	--	--
16...	<5	--	--	--	--	--	--	--	--	--	--
MAY											
01...	88	--	--	--	--	--	--	--	--	--	--
15...	51	26	4	<2	<10	--	<10	<10	<.1	23	4
JUNE											
20...	24	--	--	--	--	--	--	--	--	--	--
JULY											
17...	--	--	3	3	<10	--	<4	<5	<.1	<2	9
AUG.											
15...	40	--	--	--	--	--	--	--	--	--	--
21...	<4	--	--	--	--	--	--	--	--	--	--
SEP.											
05...	<4	--	--	--	--	--	--	--	--	--	--
17...	<4	--	--	--	--	--	--	--	--	--	--

07069268 South Fork of Spring River near Moko, Ark.

LOCATION.--Lat 36°26'23", long 91°49'44", in SE¼NW¼ sec.34, T.21 N., R.8 W., Fulton County, at bridge on State Highway 395, 0.2 mi (0.3 km) upstream from Mill Creek, and 2 mi (3.2 km) south of Moko.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT.												
04...	--	--	--	--	--	--	96	--	3.0	--	--	--
16...	--	--	--	--	--	--	200	--	4.0	--	--	--
31...	56	--	--	--	--	--	132	--	2.5	--	--	--
NOV.												
14...	135	--	580	506	26	13	102	6.0	2.5	.50	.04	146
29...	--	--	--	--	--	--	100	--	4.0	--	--	--
DEC.												
13...	--	--	--	--	--	--	86	--	3.5	--	--	--
JAN.												
03...	--	--	--	--	--	--	160	--	4.0	--	--	--
15...	--	--	--	--	--	--	187	--	3.0	--	--	--
30...	--	--	--	--	--	--	153	--	3.5	--	--	--
FEB.												
13...	20	--	270	47	18	10	75	3.0	3.5	.72	.29	126
MAR.												
07...	--	--	--	--	--	--	<121	--	4.5	--	--	--
21...	--	--	--	--	--	--	164	--	3.5	--	--	--
APR.												
04...	--	--	--	--	--	--	187	--	4.0	--	--	--
16...	--	--	--	--	--	--	123	--	3.0	--	--	--
MAY												
01...	60	--	--	--	--	19	155	--	3.0	--	--	--
15...	--	--	62	23	31	--	164	7.0	3.0	<.10	.01	102
JUNE												
20...	--	--	--	--	--	--	216	--	3.1	--	--	--
JULY												
17...	--	--	78	102	47	29	265	4.0	3.5	.15	<.01	267
AUG.												
15...	--	--	--	--	--	--	262	--	4.0	--	--	--
21...	--	60	--	--	--	--	242	--	4.1	--	--	--
SEP.												
05...	--	--	--	--	--	--	162	--	4.0	--	--	--
17...	--	56	--	--	--	--	237	--	4.0	--	--	--

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.												
04...	--	--	--	--	413	7.9	21.0	--	21	8.5	95	1.3
16...	--	--	--	--	428	7.8	20.0	--	20	9.2	98	1.8
31...	--	--	--	--	267	7.8	14.0	--	100	8.2	79	1.4
NOV.												
14...	13	159	110	60	186	7.7	11.0	50	<25	9.5	88	.5
29...	--	--	--	--	326	7.8	5.0	--	<25	10.9	88	.8
DEC.												
13...	--	--	--	--	156	7.7	4.0	--	<25	17.7	130	7.5
JAN.												
03...	--	--	--	--	264	7.8	6.0	--	<25	11.6	93	.9
15...	--	--	--	--	363	7.8	1.0	--	<25	11.0	83	1.2
30...	--	--	--	--	290	8.1	4.1	--	<25	12.4	95	1.4
FEB.												
13...	51	175	88	44	157	7.6	6.0	80	50	11.6	93	2.2
MAR.												
07...	--	--	--	--	238	7.7	14.0	--	<25	10.0	98	1.6
21...	--	--	--	--	284	8.0	14.0	--	<25	11.6	112	1.7
APR.												
04...	--	--	--	--	199	7.6	9.0	--	<25	10.5	91	.8
16...	--	--	--	--	235	7.9	14.0	--	<25	8.3	80	--
MAY												
01...	--	--	--	--	292	8.0	19.0	--	3	8.9	98	.7
15...	--	181	158	78	320	7.9	18.0	0	3	9.4	100	.9
JUNE												
20...	--	--	--	--	375	8.2	24.0	--	5	8.2	98	1.2
JULY												
17...	7	256	240	110	427	8.3	24.0	0	2	7.6	89	.8
AUG.												
15...	--	--	--	--	412	8.2	26.0	--	4	7.3	87	1.8
21...	--	--	--	--	427	8.3	24.0	--	3	7.1	84	.6
SEP.												
05...	--	--	--	--	296	8.0	22.0	--	17	8.9	79	1.0
17...	--	--	--	--	386	8.3	25.0	--	3	7.5	82	.8

07069268 South Fork of Spring River near Moko, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.												
04...	--	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
14...	1300	700	520	6	<2	<100	<5	60	3	--	<50	15
29...	--	--	--	--	--	--	--	--	--	--	--	--
DEC.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
03...	--	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
13...	2300	153	160	6	<2	<20	<6	160	150	<.7	30	180
MAR.												
07...	--	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
04...	273	60	--	--	--	--	--	--	--	--	--	--
18...	20	45	--	--	--	--	--	--	--	--	--	--
MAY												
01...	<6	<6	--	--	--	--	--	--	--	--	--	--
15...	<12	<6	<6	6	<2	<10	--	60	10	<.3	10	20
JUNE												
20...	<6	<6	--	--	--	--	--	--	--	--	--	--
JULY												
17...	<6	<6	12	3	3	<15	--	50	15	.1	<2	56
AUG.												
15...	<6	<6	--	--	--	--	--	--	--	--	--	--
21...	160	<6	--	--	--	--	--	--	--	--	--	--
SEP.												
05...	--	--	--	--	--	--	--	--	--	--	--	--
17...	580	<6	--	--	--	--	--	--	--	--	--	--

07072000 Eleven Point River near Ravenden Springs, Ark.

LOCATION.--Lat 36°20'48", long 91°06'48", in SE¼SE¼ sec.30, T.20 N., R.1 W., Randolph County, at gaging station on left bank at downstream side of bridge on State Highway 90, 0.9 mi (1.4 km) downstream from Hincha Creek, 1.9 mi (3.1 km) upstream from Eassis Creek, 6.6 mi (10.6 km) northeast of Ravenden Springs, and at mile 21.2 (34.1 km).

DRAINAGE AREA.--1,123 mi² (2,909 km²).

PERIOD OF RECORD.--Chemical analyses: October 1953 to September 1959, December 1971 to September 1973. Water temperatures: October 1956 to September 1958.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
04...	491	--	--	--	--	149	--	2.5	--	--	--	--
16...	406	--	--	--	--	176	--	2.5	--	--	--	--
31...	2440	--	--	--	--	60	--	2.0	--	--	--	--
NOV.												
14...	4720	600	670	30	6.0	90	6.0	2.0	.47	.07	130	55
29...	1500	--	--	--	--	153	--	3.0	--	--	--	--
JAN.												
03...	1740	--	--	--	--	153	--	3.5	--	--	--	--
15...	1400	--	--	--	--	157	--	3.0	--	--	--	--
30...	1000	--	--	--	--	154	--	3.0	--	--	--	--
FEB.												
13...	1970	77	19	34	24	155	5.0	3.0	.50	.01	176	10
MAR.												
21...	2620	--	--	--	--	144	--	4.0	--	--	--	--
APR.												
04...	3000	--	--	--	--	143	--	3.5	--	--	--	--
16...	3490	--	--	--	--	137	--	3.0	--	--	--	--
MAY												
01...	3410	--	--	--	--	127	--	3.0	--	--	--	--
15...	3100	140	34	30	14	132	7.0	2.5	.26	.02	153	23
JUNE												
20...	1070	--	--	--	--	163	--	3.0	--	--	--	--
JULY												
17...	1250	71	7	30	21	186	4.0	5.0	.40	.01	193	19
AUG.												
15...	--	--	--	--	--	187	--	4.0	--	--	--	--
21...	--	--	--	--	--	196	--	4.0	--	--	--	--
SEP.												
05...	913	--	--	--	--	199	--	4.0	--	--	--	--
17...	805	--	--	--	--	217	--	4.0	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
04...	--	--	--	380	8.2	19.0	--	23	9.2	98	1.2	--
16...	--	--	--	372	7.8	20.0	--	20	9.2	102	1.0	--
31...	--	--	--	166	7.7	11.0	--	68	8.8	79	2.7	--
NOV.												
14...	193	110	76	170	7.8	11.0	50	60	9.3	84	1.1	933
29...	--	--	--	261	7.7	10.0	--	<25	10.8	98	.8	--
JAN.												
03...	--	--	--	255	7.6	9.0	--	<25	10.7	93	.9	--
15...	--	--	--	286	7.7	8.0	--	<25	10.0	91	.2	--
30...	--	--	--	293	8.0	8.0	--	<25	11.4	97	.9	--
FEB.												
13...	186	175	84	292	8.0	7.0	0	<25	10.8	89	.5	90
MAR.												
21...	--	--	--	251	7.8	12.0	--	<25	10.4	96	.8	--
APR.												
04...	--	--	--	265	7.9	11.0	--	<25	10.2	92	1.0	325
16...	--	--	--	269	7.8	17.0	--	<25	10.0	103	--	5400
MAY												
01...	--	--	--	263	7.8	17.0	--	8	9.2	95	.7	1220
15...	176	130	76	254	7.8	15.0	0	6	10.0	98	.9	362
JUNE												
20...	--	--	--	298	8.1	21.0	--	1	9.4	105	1.4	801
JULY												
17...	202	188	98	326	8.0	20.0	0	2	9.4	102	.8	380
AUG.												
15...	--	--	--	337	8.2	20.0	--	3	8.5	93	.8	205
21...	--	--	--	335	8.2	22.0	--	2	8.6	98	.5	25
SEP.												
05...	--	--	--	351	8.2	20.0	--	3	8.6	96	.8	10
17...	--	--	--	337	8.3	18.0	--	3	9.4	99	.7	220

07072000 Eleven Point River near Ravenden Springs, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
04...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
14...	3000	1000	<3	2	<100	<5	30	20	--	<50	21
29...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
03...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
13...	77	20	<3	<2	<30	<4	27	<5	<.3	<15	5
MAR.											
21...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	150	--	--	--	--	--	--	--	--	--	--
16...	3300	--	--	--	--	--	--	--	--	--	--
MAY											
01...	65	--	--	--	--	--	--	--	--	--	--
15...	63	52	<3	<2	<10	--	<10	<10	<.1	19	<2
JUNE											
20...	120	--	--	--	--	--	--	--	--	--	--
JULY											
17...	7	28	<3	<2	15	--	<4	<5	<.1	<2	11
AUG.											
15...	29	--	--	--	--	--	--	--	--	--	--
21...	<4	--	--	--	--	--	--	--	--	--	--
SEP.											
05...	<5	--	--	--	--	--	--	--	--	--	--
17...	40	--	--	--	--	--	--	--	--	--	--

07072500 Black River at Black Rock, Ark.

LOCATION.--Lat 36°06'15", long 91°05'50", in NW¼ sec.21, T.17 N., R.1 W., Lawrence County, at gaging station on right bank 900 ft (274 m) downstream from St. Louis-San Francisco Railroad bridge at Black Rock, 3.7 mi (6.0 km) downstream from Spring River, and at mile 68.3 (109.9 km).

DRAINAGE AREA.--7,369 mi^2 (19,090 km^2), revised.

PERIOD OF RECORD.--Chemical analyses: October 1945 to September 1946, October 1952 to September 1953, October 1967 to September 1973.
Water temperatures: October 1945 to September 1946, October 1952 to September 1953.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)
OCT. 12...	4860	8.0	70	0	30	13	3.1	2.6	156	0	128	5.6
NOV. 13...	26900	--	--	--	--	--	--	--	--	--	--	--
DEC. 20...	17400	--	--	--	--	--	--	--	--	--	--	--
JAN. 17...	10700	--	--	--	--	--	--	--	--	--	--	--
FEB. 28...	9100	--	--	--	--	--	--	--	--	--	--	--
MAR. 28...	24300	--	--	--	--	--	--	--	--	--	--	--
MAY 08...	45400	5.4	40	40	22	10	1.3	1.9	--	--	--	5.6
JULY 16...	7110	--	--	--	--	--	--	--	--	--	--	--
AUG. 09...	5740	--	--	--	--	--	--	--	--	--	--	--
SEP. 04...	3930	--	--	--	--	--	--	--	--	--	--	--

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)
OCT. 12...	2.3	.0	.20	--	--	.01	156	.21	2050	--	130	0
NOV. 13...	--	--	.22	--	--	.04	--	--	--	--	--	--
DEC. 20...	--	--	.22	--	--	.04	--	--	--	--	--	--
JAN. 17...	--	--	.22	--	--	.03	--	--	--	--	--	--
FEB. 28...	--	--	.54	--	--	.04	--	--	--	--	--	--
MAR. 28...	--	--	.27	--	--	.09	--	--	--	--	--	--
MAY 08...	1.5	.0	.29	--	--	.13	107	.15	13100	59	96	4
JULY 16...	--	--	.28	.00	.28	.11	--	--	--	--	--	--
AUG. 09...	--	--	.23	.01	.24	.04	--	--	--	--	--	--
SEP. 04...	--	--	.31	.01	.32	.07	--	--	--	--	--	--

DATE	PERCENT SODIUM	SODIUM ADSORPTION RATIO	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 12...	5	.1	8.0	15	20	15	3.0	2.5	4200	550	150	10
NOV. 13...	--	--	--	--	--	16	--	--	--	--	--	--
DEC. 20...	--	--	--	--	--	6	--	--	--	--	--	--
JAN. 17...	--	--	--	--	--	0	--	--	--	--	--	6.0
FEB. 28...	--	--	--	--	--	6	--	--	--	--	--	--
MAR. 28...	--	--	--	--	--	7	--	--	--	--	--	--
MAY 08...	3	.1	--	50	35	2	2.7	--	10000	1000	E2500	--
JULY 16...	--	--	--	--	--	--	.8	--	2700	E280	E64	--
AUG. 09...	--	--	--	--	--	11	.8	--	7500	830	420	--
SEP. 04...	--	--	--	--	--	7	1.0	--	E12000	630	200	--

07072500 Black River at Black Rock, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE (UG/L)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIAZINON (UG/L)
MAY 08...	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00

DATE	DIELDRIN (UG/L)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR (UG/L)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE (UG/L)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DEPOSITS (UG/KG)	MALATHION (UG/L)
MAY 08...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL PARATHION (UG/L)	PARATHION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
MAY 08...	.00	.00	.0	0	.00	.0	.00	.0	.00	.0

DATE	DISSOLVED ARSENIC (AS) (UG/L)	DISSOLVED CADMIUM (CD) (UG/L)	DISSOLVED CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	DISSOLVED COBALT (CO) (UG/L)	DISSOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DISSOLVED LEAD (PB) (UG/L)	DISSOLVED MERCURY (HG) (UG/L)	DISSOLVED NICKEL (NI) (UG/L)	DISSOLVED SELENIUM (SE) (UG/L)	DISSOLVED ZINC (ZN) (UG/L)
OCT. 12...	<10	0	--	<10	0	3	--	0	<.5	0	--	16
MAY 08...	<10	0	<10	--	2	2	--	6	<.5	5	1	20
SEP. 04...	--	--	--	--	--	--	0	--	--	--	--	--

07072500 Black River at Black Rock, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

FIELD ANALYSES

DATE	MEAN DAILY DIS- CHARGE (CFS)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
12...	4860	--	--	--	255	8.0	18.0	6.7	70	--
NOV.										
13...	26900	102	0	84	190	6.9	12.0	7.2	67	21
DEC.										
20...	17600	130	0	107	218	7.6	4.0	11.0	84	5.2
JAN.										
17...	10700	148	0	121	245	7.8	5.0	10.2	80	3.8
FEB.										
28...	9180	88	0	72	270	8.1	8.5	10.2	86	1.1
MAR.										
28...	24300	120	0	98	203	7.9	13.0	8.6	81	2.4
MAY										
08...	45400	112	0	92	188	7.8	17.0	8.6	89	2.8
JULY										
16...	7110	180	0	148	294	7.9	26.0	8.2	101	3.6
AUG.										
09...	5740	184	0	151	290	8.1	26.0	--	--	2.3
SEP.										
04...	3930	216	0	177	335	8.1	25.0	7.0	86	2.7

PERIPHYTON ANALYSES

AUGUST 9, 1973, COLLECTED BY A PLASTIC STRIP SAMPLER ATTACHED TO BOAT DOCK UPSTREAM FROM BRIDGE ON JULY 16, 1973, AND REMOVED AUG. 9, 1973

BIOMASS Dry Weight g/m^2	BIOMASS Ash Weight g/m^2	CODOMINANT(S)
49	26	*Lyngbya* sp.

BENTHIC INVERTEBRATE ANALYSES

JULY 16, 1973, RANDOM POOL AND RIFFLE SAMPLE COLLECTED WITH A 110 µ NITEX SIEVE FROM RAILROAD BRIDGE TO 300 YARDS (274 M) DOWNSTREAM

TAXA	NO.
Ephemeroptera	42
Neuroptera	3
Trichoptera	30
Diptera (Simuliidae)	13

AUGUST 9, 1973, COLLECTED BY A MULTIPLE PLATE SAMPLER ATTACHED TO BOAT DOCK UPSTREAM FROM BRIDGE ON JULY 16, 1973, AND REMOVED AUG. 9, 1973

TAXA	NO.	BIOMASS g/m^2
Ephemeroptera	2	
Plecoptera	1	5.01
Coleoptera (Gyrinidae)	9	
Gastropoda (Physidae)	1	
Pelecypoda (Sphaeriidae)	3	

07074595 Village Creek near Walnut Ridge, Ark.

LOCATION.--Lat 36°05'26", long 90°56'19", in SW¼SW¼ sec.24, T.17 N., R.1 E., Lawrence County, at bridge on county road, 1.8 mi (2.9 km) northeast of Walnut Ridge.

PERIOD OF RECORD.--Chemical analyses: April to September 1973.

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DIS_SOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DIS_SOLVED NITRITE (NO2) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
APR. 18...	--	.50	2.2	--	--	.46	38	.05	--	227	31	5.2
MAY 24...	--	.04	.20	--	--	1.1	58	.08	--	890	--	5.6
JUNE 18...	--	.20	.90	--	--	.50	97	.13	--	153	20	2.6
JULY 16...	1.6	.53	2.3	.01	.0	.30	124	.17	.54	155	17	2.9
AUG. 09...	.03	.11	.50	.01	.0	.20	160	.22	.36	113	2	2.4
SEP. 10...	27	1.2	5.3	.20	.6	.23	140	.19	10.2	67	18	3.0

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
APR. 18...	.0	0	.0	.0	.0	.0	.0	.0	.0
JUNE 18...	.0	0	3.0	2.9	4.9	.0	.0	.0	.0
JULY 16...	.0	0	.4	1.1	.0	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
APR. 18...	.0	0	--	.0	--	.0	--	.0
JUNE 18...	.0	0	.02	--	.02	--	.00	--
JULY 16...	.0	0	.29	--	1.1	--	.00	--

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR. 18...	--	46	6.5	16.0
MAY 24...	--	60	7.3	--
JUNE 18...	--	121	7.6	--
JULY 16...	1.6	166	6.9	--
AUG. 09...	.03	252	7.8	--
SEP. 10...	27	183	7.2	--

07074660 Village Creek near Swifton, Ark.

LOCATION.--Lat 35°49'10", long 91°05'05", in NW¼SW¼ sec.27, T.14 N., R.1 W., Jackson County, at bridge on county road, 5.1 mi (8.2 km) upstream from Maple Ditch, and 2.4 mi (3.9 km) east of Swifton.

PERIOD OF RECORD.--Chemical analyses: April to September 1973.

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	DIS- SOLVED NITRATE (N) (MG/L)	DIS_ SOLVED NITRATE (NO3) (MG/L)	DIS- SOLVED NITRITE (N) (MG/L)	DIS_ SOLVED NITRITE (NO2) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	SUS- PENDED SOLIDS (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
APR.												
18...	--	.81	3.6	--	--	.73	44	.06	--	423	28	5.7
MAY												
24...	--	.07	.31	--	--	.43	66	.09	--	42	23	6.0
JUNE												
18...	--	.02	.09	--	--	.51	102	.14	--	48	23	1.8
JULY												
16...	7.7	.09	.40	.04	.1	.21	132	.18	2.74	29	13	3.4
AUG.												
09...	.00	.05	.22	.01	.0	.13	146	.20	.00	29	26	2.3
SEP.												
10...	1200	.22	.97	.07	.2	.23	69	.09	224	42	15	2.0

DATE	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)
APR.									
18...	.0	0	8.0	6.3	31	.0	.0	.0	.0
JUNE									
18...	.0	0	4.6	6.9	4.4	.0	.0	.0	.0
JULY									
16...	.0	0	3.1	5.9	2.8	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM DE- POSITS (UG/KG)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE- POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE- POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE- POSITS (UG/KG)
APR.								
18...	.0	0	--	.0	--	.0	--	.0
JUNE								
18...	.0	0	.05	--	.14	--	.00	--
JULY								
16...	.0	0	.00	--	.05	--	.00	--

FIELD ANALYSES

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)
APR.				
18...	--	47	6.6	16.0
MAY				
24...	--	109	7.6	--
JUNE				
18...	--	127	7.5	--
JULY				
16...	7.7	202	7.1	--
AUG.				
09...	.00	245	7.6	--
SEP.				
10...	1200	84	6.7	--

07074700 Village Creek near Newport, Ark.

LOCATION.--Lat 35°35'34", long 91°14'28", in NE¼NW¼ sec.18, T.11 N., R.2 W., Jackson County, at bridge on State Highway 14, 3.5 mi (5.6 km) downstream from Locust Creek, and 1.0 mi (1.6 km) southeast of Newport.

PERIOD OF RECORD.--Chemical analyses: April to September 1973.

CHEMICAL ANALYSES, APRIL TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED NITRATE (N) (MG/L)	DISSOLVED NITRATE (NO3) (MG/L)	DISSOLVED NITRITE (N) (MG/L)	DISSOLVED NITRITE (NO2) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	SUSPENDED SOLIDS (MG/L)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
APR.												
18...	--	.32	1.4	--	--	.32	86	.12	--	76	22	6.1
MAY												
24...	--	.11	.49	--	--	.46	82	.11	--	49	28	7.6
JUNE												
18...	--	.04	.18	--	--	.42	145	.20	--	126	21	2.0
JULY												
16...	49	.25	1.1	.01	.0	.34	100	.14	13.2	66	17	1.8
AUG.												
09...	9.0	.07	.31	.01	.0	.17	178	.24	4.33	29	13	1.4
SEP.												
10...	259	.08	.35	.09	.3	.31	110	.15	76.9	51	27	2.5

DATE	ALDRIN IN BOTTOM DEPOSITS (UG/KG)	CHLORDANE IN BOTTOM DEPOSITS (UG/KG)	DDD IN BOTTOM DEPOSITS (UG/KG)	DDE IN BOTTOM DEPOSITS (UG/KG)	DDT IN BOTTOM DEPOSITS (UG/KG)	DIELDRIN IN BOTTOM DEPOSITS (UG/KG)	ENDRIN IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR IN BOTTOM DEPOSITS (UG/KG)	HEPTACHLOR EPOXIDE IN BOTTOM DEPOSITS (UG/KG)
APR.									
18...	.0	0	45	45	43	.0	.0	.0	.0
JUNE									
18...	.0	0	3.5	4.9	3.5	.0	.0	.0	.0
JULY									
16...	.0	0	4.7	7.1	3.6	.0	.0	.0	.0

DATE	LINDANE IN BOTTOM DEPOSITS (UG/KG)	PCB IN BOTTOM DEPOSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DEPOSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DEPOSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DEPOSITS (UG/KG)
APR.								
18...	.0	0	--	.0	--	.0	--	.0
JUNE								
18...	.0	0	.48	--	.02	--	.00	--
JULY								
16...	.0	0	.00	--	.01	--	.00	--

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)
APR.				
18...	--	103	6.9	17.0
MAY				
24...	--	101	7.3	--
JUNE				
18...	--	195	7.5	--
JULY				
16...	49	135	7.2	--
AUG.				
09...	9.0	272	8.1	--
SEP.				
10...	259	156	7.1	--

07076200 Little Red River near Wilburn, Ark.

LOCATION.--Lat 35°29'33", long 91°58'21", in SW¼SW¼ sec.16, T.10 N., R.9 W., Cleburne County, temperature recorder just upstream from bridge on State Highway 110, 4 mi (6.4 km) southwest of Wilburn.

DRAINAGE AREA.--1,196 mi² (3,098 km²).

PERIOD OF RECORD.--Water temperatures: April 1968 to September 1973.

EXTREMES.--Current year:
Water temperatures: Maximum, 16.5°C June 11; minimum, 4.0°C Jan. 30, Mar. 18.

Period of record:
Water temperatures: Maximum, 19.5°C June 7, 1971; minimum, 3.0°C Feb. 14, 1971.

REMARKS.--Flow regulated by upstream reservoir. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	14.0	10.5	9.0	8.5	7.0	6.5	6.0	5.5	5.5	5.0
2	---	---	12.0	10.5	9.0	8.5	7.0	6.5	6.5	5.0	6.0	5.0
3	---	---	11.0	10.0	9.5	8.0	6.5	6.0	6.5	5.0	6.0	5.0
4	---	---	10.5	9.5	9.5	8.0	6.5	6.0	6.5	5.0	5.5	5.0
5	---	---	10.0	9.5	9.0	8.5	6.0	5.5	6.5	5.5	6.0	5.0
6	---	---	10.0	9.5	---	---	6.5	5.5	6.5	5.5	6.0	5.5
7	---	---	12.0	10.0	---	---	6.5	5.0	5.5	5.5	6.5	5.5
8	---	---	10.5	9.5	8.5	6.5	6.5	5.5	5.5	5.0	6.0	5.5
9	---	---	9.5	9.0	8.5	7.0	6.0	5.5	5.5	4.5	6.0	5.5
10	---	---	10.0	9.5	8.0	6.5	6.0	5.0	5.5	4.5	12.0	5.5
11	---	---	10.0	9.5	8.5	5.5	6.0	5.0	5.5	4.5	10.0	8.0
12	---	---	10.0	9.5	8.0	5.5	6.0	5.0	5.5	5.0	8.5	6.0
13	---	---	11.5	10.5	7.0	6.0	6.0	5.0	5.5	5.0	6.0	5.0
14	---	---	11.0	9.5	7.0	6.0	6.0	5.0	5.5	5.0	8.0	5.5
15	---	---	9.5	8.5	7.0	5.5	6.0	5.0	5.5	5.0	5.0	6.0
16	14.0	11.0	9.0	8.5	---	---	6.0	5.5	5.5	5.0	6.0	5.0
17	11.0	9.5	9.0	8.5	---	---	6.5	5.5	5.5	5.0	6.0	4.5
18	10.0	9.0	9.0	8.0	8.0	6.5	6.0	5.0	6.0	5.0	6.0	4.0
19	10.0	8.5	8.0	7.0	---	---	6.0	5.0	5.5	4.5	6.0	5.0
20	10.0	8.5	9.0	7.0	---	---	6.0	5.0	5.5	4.5	5.5	5.0
21	9.5	9.0	8.5	8.0	---	---	6.5	5.5	5.5	4.5	6.0	4.5
22	10.5	9.5	8.5	8.0	---	---	6.0	5.5	5.5	4.5	6.0	4.5
23	11.5	10.5	8.5	7.5	---	---	6.0	5.0	5.5	4.5	6.0	4.5
24	11.5	10.5	8.0	7.0	6.5	6.0	6.0	5.0	5.5	4.5	5.5	5.0
25	10.5	10.0	8.0	7.0	6.0	6.0	6.0	5.0	6.0	5.0	6.5	5.5
26	10.0	9.0	8.0	6.5	7.0	6.0	6.0	5.5	5.5	5.0	7.0	5.5
27	9.0	9.0	9.0	8.0	7.0	6.0	6.0	5.5	5.5	5.0	6.5	5.0
28	9.5	9.0	---	---	7.0	6.0	6.0	5.5	5.5	4.5	5.5	5.0
29	10.0	9.5	---	---	7.0	5.5	6.0	5.0	---	---	6.5	5.0
30	10.5	9.5	---	---	8.5	7.0	6.0	4.0	---	---	5.5	5.0
31	13.0	9.5	---	---	8.0	6.5	5.5	5.5	---	---	7.0	5.5
AVG	---	---	10.0	8.5	---	---	6.0	5.5	6.0	5.0	7.0	5.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	6.5	5.5	8.5	7.0	10.5	8.5	9.5	8.5	10.5	9.5	11.5	10.5
2	6.5	5.0	9.0	8.0	9.5	8.5	10.5	8.5	10.5	9.5	11.5	10.5
3	6.0	5.5	8.5	7.0	10.0	8.0	10.5	8.5	11.5	9.5	12.0	10.5
4	6.0	5.5	8.5	7.0	9.0	8.0	9.5	8.5	12.0	9.5	11.0	10.5
5	6.5	5.0	8.0	7.0	---	---	11.0	8.5	12.5	10.5	11.0	10.5
6	6.5	5.0	8.0	7.0	11.0	8.5	11.0	8.5	12.0	9.5	13.0	11.5
7	6.0	5.5	11.5	7.0	11.0	8.5	11.0	9.0	10.5	9.5	14.0	13.0
8	6.5	5.5	9.0	7.0	12.0	8.5	9.5	8.5	11.0	9.5	14.5	10.5
9	6.5	5.5	14.0	8.5	13.0	8.5	10.5	8.5	10.5	9.5	13.0	10.5
10	8.0	6.5	---	---	14.0	10.5	10.0	9.0	10.0	10.0	12.0	11.0
11	8.0	6.0	---	---	16.5	8.0	11.0	9.0	11.5	10.0	11.5	10.5
12	8.0	6.0	---	---	11.0	8.0	10.5	9.0	11.0	10.0	12.0	10.5
13	7.0	6.0	---	---	11.5	8.5	10.0	9.0	11.0	10.0	12.0	10.5
14	7.0	6.5	9.0	8.0	10.5	8.0	10.5	9.0	11.0	10.0	12.0	10.5
15	7.0	6.5	9.0	8.0	10.5	8.5	10.5	9.0	10.5	9.5	13.0	11.0
16	8.5	7.0	9.0	8.0	12.0	8.5	9.0	9.0	10.5	10.0	13.5	12.0
17	8.5	6.5	9.0	8.0	12.0	8.0	9.5	9.0	11.0	10.0	12.0	10.5
18	7.0	6.5	9.0	8.0	---	---	10.0	9.0	11.0	10.0	11.0	10.0
19	10.0	7.0	9.0	8.0	---	---	10.0	9.0	11.0	10.0	11.0	10.0
20	11.5	8.5	9.0	8.0	11.0	8.0	10.5	9.5	11.0	10.0	11.5	10.5
21	10.5	7.0	9.0	8.0	10.5	8.0	12.0	9.5	11.0	10.0	13.0	10.5
22	13.5	7.0	9.0	8.5	12.5	8.0	10.5	9.5	11.0	10.0	13.5	10.5
23	13.5	8.5	9.0	8.0	14.0	10.5	10.0	9.5	12.0	10.0	13.0	10.5
24	11.0	7.0	9.5	8.0	14.5	8.0	10.5	9.5	11.5	10.5	13.0	11.0
25	10.0	7.0	9.5	8.5	9.0	8.0	10.0	9.5	11.5	10.5	13.0	10.5
26	9.0	6.5	9.5	8.5	11.0	8.5	11.0	9.5	11.0	10.5	13.5	10.5
27	9.0	6.5	9.5	8.5	11.0	8.5	10.5	9.5	13.0	10.5	13.0	10.5
28	8.5	6.5	9.5	8.5	9.5	8.5	11.5	9.5	13.0	10.5	13.0	11.0
29	8.5	6.5	10.0	8.5	9.0	8.5	10.5	9.5	12.0	10.5	13.0	11.0
30	8.5	7.0	9.5	8.5	9.5	8.5	10.0	9.5	11.0	10.5	14.0	13.0
31	---	---	10.0	8.5	---	---	11.0	9.5	11.5	10.5	---	---
AVG	8.5	6.5	9.0	8.0	11.5	8.0	10.5	9.0	11.5	10.0	12.5	11.0

07076500 Little Red River at Pangburn, Ark.

LOCATION.--Lat 35°26'30", long 91°50'09", in NE¼ sec.3, T.9 N., R.8 W., White County, temperature recorder on right bank, 0.6 mi (1.0 km) downstream from bridge on secondary road, 1 mi (1.6 km) north of Pangburn, 8.6 mi (13.8 km) upstream from Fourteen Mile Creek, and 22.1 mi (35.6 km) downstream from Greers Ferry Dam.

DRAINAGE AREA.--1,235 mi^2 (3,199 km^2), revised.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1973.

EXTREMES.--Current year:
Water temperatures: Maximum, 16.5°C June 11, 25; minimum, 4.5°C Feb. 9-11, 17-18.

Period of record:
Water temperatures: Maximum, 22.0°C June 10, 1971; minimum, 2.0°C Dec. 30, 1966.

REMARKS.--Flow regulated by upstream reservoir. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	13.5	13.0	13.0	11.5	7.0	7.0	6.5	6.5	6.0	5.5	5.5	5.0
2	14.0	13.0	12.0	11.5	8.0	7.0	6.5	6.5	6.0	5.5	6.0	5.0
3	14.0	13.5	11.5	11.0	9.0	8.0	6.5	6.5	5.5	5.5	6.0	5.5
4	14.5	13.5	11.0	10.5	8.5	8.5	6.5	6.0	6.0	5.5	6.0	5.5
5	15.0	14.0	10.5	10.0	8.5	8.5	6.0	6.0	6.0	5.5	6.0	5.5
6	15.0	14.5	10.5	10.0	8.5	7.0	6.0	5.5	6.0	6.0	6.0	5.5
7	15.0	14.5	10.5	10.0	8.0	7.0	6.0	5.0	6.0	5.5	6.5	5.5
8	14.5	14.0	10.5	10.5	8.0	6.5	6.0	5.5	5.5	5.0	6.0	5.5
9	15.0	14.5	10.5	10.0	7.0	6.5	---	---	5.0	4.5	6.0	5.5
10	14.5	13.5	10.0	10.0	7.0	6.5	---	---	4.5	4.5	8.5	5.5
11	13.5	13.0	10.0	10.0	6.5	6.0	---	---	5.0	4.5	10.0	8.5
12	14.0	13.5	10.5	9.5	7.0	6.5	---	---	5.0	5.0	10.0	9.5
13	14.5	14.0	11.0	10.5	6.5	5.5	---	---	5.5	5.0	9.5	8.5
14	15.0	14.5	11.0	10.0	5.5	5.5	---	---	5.5	5.5	8.5	7.0
15	15.0	14.5	10.0	8.5	6.0	5.5	5.0	5.0	5.5	5.0	8.5	8.5
16	15.5	14.5	8.5	8.0	5.5	5.0	5.5	5.0	5.0	5.0	8.5	7.0
17	15.5	14.0	8.5	8.0	5.5	5.0	6.0	5.5	5.0	4.5	7.0	6.5
18	14.0	11.5	8.5	8.5	6.0	5.0	6.0	6.0	5.0	4.5	7.0	6.5
19	11.5	10.5	8.5	8.0	6.5	6.0	6.0	6.0	5.5	5.0	7.0	6.5
20	10.5	10.0	8.0	7.0	6.5	6.5	6.0	5.5	5.5	5.0	7.0	6.0
21	10.5	10.0	8.0	7.0	6.5	6.5	6.0	5.5	5.5	6.0	6.5	6.0
22	11.0	10.5	8.0	7.0	6.5	6.0	6.0	5.5	5.0	6.0	6.5	6.0
23	11.0	11.0	8.0	7.0	6.0	6.0	5.5	5.5	5.5	6.5	6.5	6.5
24	---	---	7.0	6.5	6.0	6.0	5.5	5.5	5.5	6.0	6.5	6.0
25	---	---	7.0	6.5	6.0	6.0	5.5	5.5	5.5	6.0	7.0	6.0
26	---	---	6.5	6.5	6.0	5.5	5.5	5.5	5.5	5.5	8.0	7.0
27	---	---	7.0	6.5	6.5	5.5	6.0	5.5	6.5	5.5	8.0	6.5
28	---	---	7.0	7.0	6.5	6.0	6.0	5.0	5.5	5.0	7.0	6.5
29	---	---	8.0	7.0	7.0	6.0	5.0	5.0	---	---	7.0	6.5
30	11.0	10.5	7.0	7.0	8.0	7.0	5.0	5.0	---	---	7.0	6.5
31	11.5	11.0	---	---	8.0	6.5	5.5	5.0	---	---	8.0	6.5
AVG	13.5	13.0	9.0	9.0	7.0	6.5	6.0	5.5	5.5	5.0	7.0	6.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	8.0	7.0	9.5	8.5	10.5	9.0	11.0	10.0	---	---	13.0	11.5
2	7.0	7.0	11.5	9.0	11.0	9.5	11.0	10.0	---	---	13.5	12.0
3	7.0	6.5	12.0	9.5	11.0	10.0	11.0	10.0	---	---	13.0	12.0
4	6.5	6.5	9.5	9.0	11.0	9.5	11.0	10.0	---	---	13.0	11.5
5	7.0	6.5	9.0	8.5	11.5	10.0	11.0	10.0	---	---	12.0	11.5
6	7.0	7.0	9.0	8.5	11.5	9.5	---	---	15.0	13.5	13.0	11.5
7	7.0	6.5	11.0	9.0	11.5	9.5	---	---	14.0	11.0	13.0	13.0
8	7.0	6.5	10.0	9.0	11.5	9.5	10.5	10.0	12.0	11.0	13.0	11.5
9	7.0	6.5	9.5	9.0	12.0	11.0	11.0	10.0	11.5	11.0	15.0	13.0
10	8.0	6.5	9.5	9.0	14.5	12.0	12.0	10.5	11.5	11.0	16.0	14.0
11	8.0	7.0	9.5	8.5	16.5	14.0	12.0	10.5	12.0	11.0	14.0	12.0
12	8.0	7.0	9.5	8.5	---	---	12.0	10.5	12.0	11.0	13.0	11.5
13	8.0	7.0	9.5	8.5	---	---	11.0	10.0	12.0	11.0	13.0	11.5
14	8.0	7.0	9.5	9.0	11.5	10.5	11.5	10.0	12.0	11.0	13.0	12.0
15	8.0	8.0	9.5	9.0	11.5	10.0	12.0	11.0	11.5	11.0	13.5	12.0
16	9.5	8.0	9.5	9.0	12.0	10.0	11.0	10.5	11.5	11.0	15.0	13.5
17	9.0	8.5	9.5	9.0	11.5	10.5	11.0	10.5	11.5	11.0	15.0	13.5
18	8.5	8.0	9.5	9.0	12.0	10.5	11.0	10.5	12.0	11.0	13.5	12.0
19	10.0	8.5	9.5	9.0	11.5	10.0	11.5	10.5	12.0	11.5	12.0	11.5
20	10.5	10.0	10.0	9.0	11.0	10.0	11.5	10.5	12.0	11.5	12.0	11.5
21	10.5	10.0	10.0	9.0	11.5	10.0	13.0	10.5	12.0	11.5	13.5	11.5
22	13.0	10.0	10.0	9.0	11.0	10.0	13.0	11.0	13.0	11.0	13.5	11.5
23	13.5	11.0	10.0	9.0	11.5	9.5	11.5	10.5	13.0	11.5	13.5	13.0
24	11.5	10.0	10.0	9.0	14.5	11.5	11.5	11.0	13.0	11.5	14.0	13.5
25	10.0	9.0	10.0	9.5	16.5	14.5	11.0	10.5	12.0	11.5	13.5	14.0
26	9.5	9.0	10.0	9.0	16.0	10.5	12.0	10.5	12.0	11.5	13.5	12.0
27	9.0	8.0	10.5	10.0	11.5	10.0	11.5	10.5	13.5	11.5	13.5	12.0
28	9.0	8.0	11.0	10.5	11.0	10.0	12.0	10.5	13.5	11.5	13.5	13.0
29	10.0	8.5	11.0	10.0	10.5	10.0	12.0	11.0	13.5	11.5	14.0	13.0
30	9.5	9.0	11.0	9.5	11.0	10.0	12.0	11.0	13.0	11.5	15.0	13.5
31	---	---	10.5	9.5	---	---	---	---	13.0	11.5	---	---
AVG	8.5	8.0	10.0	9.0	12.0	10.5	11.5	10.5	12.5	11.5	13.5	12.5

07076620 Little Red River near Searcy, Ark.

LOCATION.--Lat 35°16'57", long 91°43'05", in SE¼ sec.26, T.8 N., R.7 W., White County, temperature recorder on right bank near waterworks tower, 2.5 mi (4.0 km) northeast of Searcy, 12.8 mi (20.6 km) downstream from Ten Mile Creek, and 23.4 mi (37.7 km) upstream from Big Mingo Creek.

DRAINAGE AREA.--1,648 mi² (4,268 km²).

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1973.

EXTREMES.--Current year:
Water temperatures: Maximum, 21.0°C June 12-13; minimum, 3.5°C Dec. 18.

Period of record:
Water temperatures: Maximum, 29.0°C June 30, 1969, June 13, 1971; minimum, freezing point Jan. 18, 19, 1967.

REMARKS.--Flow regulated by upstream reservoir. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.5	16.0	15.0	7.0	6.5	7.0	6.5	7.0	6.0	6.5	5.5
2	16.5	14.5	16.0	14.5	7.0	6.5	6.5	6.5	8.0	7.0	8.0	6.0
3	18.0	15.5	14.5	14.0	8.5	7.0	6.5	6.0	7.0	6.5	8.0	7.0
4	18.5	16.5	13.5	12.0	8.5	8.5	6.5	6.0	6.5	6.0	8.0	7.0
5	19.0	17.0	12.0	11.5	9.0	8.5	6.5	6.0	7.0	6.5	8.0	6.5
6	18.5	18.0	11.5	11.0	9.0	7.0	6.0	5.5	8.0	7.0	8.0	7.0
7	18.0	18.0	13.0	11.0	7.0	6.5	5.5	4.5	7.0	6.5	9.0	8.0
8	18.5	17.0	13.0	12.0	7.0	5.0	6.0	4.5	6.5	5.0	9.5	8.0
9	18.5	18.0	12.0	11.0	6.0	5.0	5.5	4.0	5.0	4.5	8.0	7.0
10	18.0	18.0	11.0	11.0	6.0	5.5	5.5	4.0	4.5	4.0	13.0	7.0
11	18.5	17.0	11.0	11.0	5.5	4.5	5.5	5.0	5.0	4.0	14.0	13.0
12	19.0	17.0	11.0	10.5	6.5	4.5	5.5	4.5	5.0	4.5	13.0	12.0
13	19.0	18.5	12.0	11.0	5.5	4.5	5.0	4.5	5.5	5.0	12.0	12.0
14	19.0	18.5	12.0	11.5	4.5	4.5	5.0	4.5	6.0	5.5	12.0	11.0
15	18.5	18.5	11.5	10.0	4.5	4.5	5.0	4.5	6.0	6.0	12.0	11.5
16	20.0	18.5	10.0	9.0	4.5	4.0	6.0	4.0	6.0	5.0	11.5	10.5
17	19.5	18.5	9.0	8.5	4.0	4.0	6.5	6.0	5.5	5.0	10.5	9.0
18	18.5	15.0	8.5	8.0	3.5	3.5	8.0	6.5	5.0	4.5	9.0	8.5
19	15.0	13.0	8.0	7.0	6.0	4.5	8.0	7.0	6.0	5.0	9.0	8.5
20	12.0	11.0	7.0	6.5	6.5	6.0	7.0	6.5	6.0	6.0	9.5	8.5
21	11.5	11.0	7.0	7.0	6.5	6.5	8.0	6.5	6.0	6.0	8.5	8.0
22	12.0	11.5	7.0	7.0	6.5	6.0	8.0	7.0	6.0	5.5	8.5	8.0
23	12.0	12.0	7.0	7.0	6.0	6.0	7.0	6.0	6.0	5.5	9.0	8.0
24	12.0	12.0	7.0	6.5	6.0	5.5	6.0	5.5	6.5	6.0	9.0	8.5
25	13.0	11.5	6.5	6.5	5.5	5.5	6.0	5.5	6.5	6.0	9.0	8.5
26	12.0	11.5	6.5	6.5	5.5	5.5	6.0	6.5	6.5	6.0	10.0	9.0
27	11.5	11.5	7.0	6.5	6.0	5.5	6.5	6.5	6.0	6.0	10.0	10.0
28	11.5	11.0	7.0	7.0	6.5	6.0	7.0	6.5	6.0	5.5	10.0	9.5
29	12.0	11.0	7.0	6.5	8.0	6.5	6.5	5.0	--	--	10.5	9.0
30	12.0	12.0	7.0	6.5	9.0	8.0	6.0	4.5	--	--	10.5	10.0
31	15.0	13.0	--	--	9.0	7.0	6.5	5.0	--	--	12.0	10.0
AVG	16.0	15.0	10.0	9.5	6.5	6.0	6.5	5.5	6.0	5.5	10.0	9.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.0	10.5	11.5	10.5	12.0	12.0	12.0	11.5	14.0	13.0	14.5	14.0
2	10.5	9.5	14.5	11.0	14.5	12.0	12.0	11.5	14.0	13.0	14.5	14.0
3	10.0	9.0	15.5	14.5	16.0	14.5	13.0	12.0	13.5	13.0	14.5	14.0
4	9.0	8.0	15.5	11.5	15.0	14.0	13.0	11.5	14.0	13.5	14.5	14.0
5	9.0	8.0	11.5	10.5	15.0	13.0	13.0	11.5	15.0	13.5	14.5	13.0
6	9.5	8.5	10.5	10.0	15.0	13.5	13.5	13.0	17.0	14.5	14.0	13.5
7	9.5	9.0	13.5	10.0	14.5	14.0	13.5	11.5	17.0	13.5	15.0	14.0
8	9.0	8.5	14.0	11.5	14.5	14.0	11.5	11.0	14.0	13.0	18.5	15.0
9	9.0	8.5	11.5	11.5	15.5	14.0	13.0	11.0	14.0	13.0	17.0	15.5
10	8.5	8.0	12.0	11.0	17.0	15.5	13.5	12.0	13.5	13.0	19.0	17.0
11	9.5	8.5	11.5	10.5	18.0	17.0	14.5	13.5	13.5	11.5	19.0	14.5
12	9.5	9.0	--	--	21.0	18.0	14.5	13.5	14.0	13.5	14.5	14.0
13	9.5	9.0	--	--	21.0	15.5	14.0	12.0	14.0	13.5	14.0	14.0
14	9.0	8.5	11.0	10.0	15.5	14.5	13.5	12.0	14.5	13.5	14.5	14.0
15	9.5	9.0	11.0	10.0	15.0	14.0	14.0	13.0	14.5	13.5	15.5	15.0
16	11.0	9.0	11.0	10.0	14.5	13.0	14.0	11.0	14.0	13.0	16.0	15.0
17	11.5	11.0	11.0	10.5	15.5	13.5	11.5	11.0	13.5	13.0	16.5	16.0
18	11.5	10.0	11.0	10.5	16.0	14.0	13.0	11.5	13.5	13.0	16.5	13.5
19	13.0	10.5	11.0	10.5	16.0	13.0	13.0	12.0	13.5	13.0	13.5	13.0
20	14.5	13.0	11.0	10.5	14.0	13.0	13.5	13.0	14.0	13.0	13.5	13.0
21	14.5	14.5	11.0	10.5	14.0	13.0	14.0	13.5	14.0	13.0	14.0	13.5
22	16.0	14.5	11.0	10.5	14.0	13.0	15.0	14.0	14.0	13.5	15.0	14.0
23	17.0	16.0	11.5	11.0	14.0	13.0	14.0	13.0	14.0	14.0	15.0	14.0
24	18.0	15.5	11.5	11.0	15.0	13.0	13.5	12.0	14.5	14.0	16.0	15.0
25	15.5	13.5	11.5	11.0	17.0	15.0	13.5	13.0	14.5	13.5	16.0	14.0
26	13.5	12.0	11.5	11.0	20.0	13.0	14.0	13.0	14.0	13.5	15.5	14.0
27	13.0	11.0	14.0	11.5	13.0	11.5	14.0	13.0	14.0	14.0	15.0	14.5
28	11.0	11.0	14.0	12.0	13.0	12.0	13.5	13.0	14.5	14.0	14.5	14.5
29	11.0	11.0	13.5	12.0	12.0	11.0	14.0	13.5	14.5	14.0	16.0	14.5
30	12.0	11.0	13.0	12.0	11.5	10.5	13.5	12.0	14.5	13.5	17.0	16.0
31	--	--	13.0	12.0	--	--	13.5	12.0	14.0	13.5	--	--
AVG	11.5	10.5	12.0	11.0	15.5	13.5	13.5	12.0	14.0	13.0	15.5	14.0

07076750 White River at Georgetown, Ark.

LOCATION.--Lat 35°07'45", long 91°27'00", in sec.20, T.6 N., R.4 W., White County, at National Weather Service gaging station on right bank at Georgetown, 9.2 mi (14.8 km) downstream from Little Red River, and at mile 173.2 (278.7 km).

DRAINAGE AREA.--22,387 mi² (57,982 km²), revised.

PERIOD OF RECORD.--Water temperatures: October 1966 to September 1973.

EXTREMES.--Current year:
Water temperatures: Maximum, 24.5°C June 13-17; minimum, 2.0°C Dec. 18, Jan. 12.

Period of record:
Water temperatures: Maximum, 28.5°C July 10, 11, 1971; minimum, freezing point Jan. 9, 10, 1970.

REMARKS.--Flow regulated by upstream reservoirs. Records furnished by Arkansas Game and Fish Commission, Fisheries Division, Lonoke, Ark.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	20.0	16.0	14.0	7.0	6.5	7.0	7.0	6.0	5.5	8.5	8.0
2	20.0	19.5	15.5	15.5	7.0	7.0	7.0	6.5	6.5	6.0	9.0	8.5
3	19.5	19.5	15.5	15.5	7.0	7.0	7.0	7.0	7.0	6.5	9.0	9.0
4	20.0	19.5	15.5	15.5	8.0	7.0	7.0	6.5	7.0	7.0	10.0	9.0
5	20.0	19.5	15.5	15.0	8.5	8.0	6.5	6.0	8.0	7.0	10.0	10.0
6	20.5	20.0	15.0	14.5	8.5	7.0	6.0	5.5	8.5	8.0	10.5	10.0
7	20.0	19.5	14.5	14.5	7.0	7.0	6.5	4.5	8.0	8.0	11.0	10.5
8	19.5	19.0	14.5	13.5	7.0	6.5	4.5	4.0	8.0	6.5	12.0	11.0
9	19.5	19.0	13.5	13.5	6.5	6.0	4.0	3.5	6.5	5.5	13.5	12.0
10	19.0	19.0	13.5	13.0	6.0	5.5	3.5	3.0	5.5	4.5	13.0	12.0
11	19.5	19.0	13.0	13.0	5.5	4.5	3.5	3.0	4.5	4.0	13.0	11.5
12	20.0	19.5	13.0	12.0	4.5	4.0	3.0	2.0	4.5	4.5	13.5	13.0
13	20.5	20.0	12.0	12.0	4.0	3.5	3.0	3.0	5.0	4.5	14.5	13.5
14	20.5	20.0	12.0	12.0	3.5	3.5	3.0	3.0	5.0	5.0	15.0	14.5
15	--	--	12.0	11.5	3.5	3.5	3.5	3.0	5.0	5.0	15.0	15.0
16	--	--	11.5	10.5	3.5	3.5	3.5	3.5	5.0	4.5	15.0	14.0
17	--	--	10.5	10.0	3.5	3.0	4.5	3.5	4.5	4.0	14.0	13.0
18	--	--	10.0	9.0	3.0	2.0	5.5	4.5	4.5	4.0	13.0	13.0
19	19.0	18.0	9.0	8.5	--	--	6.0	5.5	5.0	4.5	13.5	13.0
20	18.0	16.5	8.5	8.0	--	--	7.0	6.0	5.5	5.0	13.5	13.0
21	16.0	15.0	8.0	8.0	4.0	3.5	8.0	7.0	6.0	5.5	13.0	12.0
22	15.0	13.5	8.0	6.5	4.0	4.0	8.0	8.0	6.0	6.0	12.0	11.5
23	13.5	13.5	6.5	6.5	4.0	4.0	8.0	8.0	6.5	6.0	13.0	12.0
24	14.0	13.5	6.5	6.5	4.5	4.0	8.0	7.0	7.0	6.5	13.0	12.0
25	14.5	14.0	6.5	6.5	4.5	4.0	7.0	7.0	8.0	7.0	12.0	11.5
26	14.0	13.5	6.5	6.5	4.5	4.5	7.0	6.5	8.0	8.0	11.5	11.5
27	13.5	13.5	6.5	6.5	5.0	4.5	7.0	6.5	8.0	8.0	11.5	11.5
28	13.5	13.5	6.5	6.5	5.0	5.0	7.0	6.5	8.0	8.0	11.5	11.5
29	13.5	13.5	6.5	6.5	5.5	5.0	6.5	6.0	--	--	13.0	11.5
30	13.5	13.5	6.5	6.5	6.5	5.5	6.0	6.0	--	--	13.5	13.0
31	14.0	13.5	--	--	6.5	6.5	6.0	5.5	--	--	14.5	13.5
AVG	17.5	17.0	11.0	10.5	5.5	5.0	6.0	5.5	6.5	6.0	12.5	12.0

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	14.0	13.5	16.5	16.5	20.5	20.0	20.5	19.5	20.5	20.0	20.0	19.5
2	14.0	13.5	17.0	16.5	21.0	20.5	20.5	19.5	20.5	20.0	20.0	19.5
3	14.0	13.5	17.0	16.5	21.0	20.5	20.0	19.5	21.0	20.5	19.5	19.0
4	13.5	12.0	17.0	16.5	21.0	21.0	20.5	19.5	21.0	20.5	19.5	19.5
5	13.0	11.5	17.0	17.0	21.0	21.0	20.5	20.0	21.0	20.0	19.5	19.0
6	13.0	12.0	18.0	18.0	21.0	21.0	21.0	20.0	20.5	19.5	19.0	18.5
7	13.0	12.0	18.0	18.0	21.0	21.0	20.5	20.0	20.5	20.0	18.5	18.5
8	13.0	12.0	18.0	17.0	21.5	21.0	22.0	20.5	20.5	20.0	18.5	18.5
9	12.0	11.5	18.0	17.0	22.0	21.5	21.5	20.5	21.0	20.5	19.5	18.5
10	11.5	11.0	19.0	18.0	23.0	22.0	21.0	20.0	20.5	19.5	19.5	19.0
11	11.0	10.5	19.0	19.0	23.5	23.0	21.5	20.5	20.0	19.5	19.5	19.0
12	11.5	10.5	19.0	19.0	24.0	23.5	21.5	20.5	20.0	19.5	19.5	19.5
13	11.5	11.0	19.0	18.5	24.5	24.0	20.5	20.0	19.5	19.5	20.0	19.5
14	12.0	11.0	18.5	18.0	24.5	24.0	20.5	20.0	20.5	19.5	20.0	20.0
15	12.0	11.5	18.5	18.0	24.5	24.5	20.5	20.5	21.0	20.5	20.0	20.0
16	13.0	12.0	18.0	18.0	24.5	24.5	20.5	19.5	21.0	20.0	20.0	19.0
17	13.5	13.0	18.0	18.0	24.5	24.0	19.5	19.0	20.5	20.0	19.0	19.0
18	14.0	13.5	18.0	18.0	24.0	23.5	19.0	18.5	20.0	19.5	19.5	18.5
19	14.0	13.5	18.0	18.0	23.5	23.5	19.0	18.5	20.0	19.5	18.5	18.0
20	14.0	14.0	18.5	18.0	23.5	23.5	20.0	19.0	20.0	19.5	18.0	17.0
21	14.0	14.5	18.5	18.5	23.5	23.0	20.5	20.0	20.0	19.5	17.0	17.0
22	16.0	15.5	19.0	18.5	23.0	23.0	20.5	20.5	20.0	19.5	18.0	17.0
23	17.0	16.0	19.5	19.0	23.0	23.0	20.5	20.5	20.0	19.5	19.0	18.0
24	18.5	17.0	19.5	19.0	23.5	23.0	21.0	20.5	20.0	19.5	19.5	19.0
25	18.5	18.5	20.0	19.5	23.5	22.0	21.0	20.5	20.0	19.5	19.5	19.5
26	18.5	18.0	20.0	19.5	23.0	22.0	20.5	20.0	20.0	19.5	20.0	19.5
27	18.0	16.5	20.0	19.5	22.0	21.0	20.0	20.0	20.0	19.5	20.0	20.0
28	16.5	16.0	20.0	19.5	21.5	21.0	20.5	20.0	20.5	20.0	20.0	19.5
29	16.0	16.0	20.0	19.0	22.0	20.5	20.5	20.5	20.5	20.0	20.0	20.0
30	16.5	16.0	20.0	19.0	21.0	20.0	20.5	20.0	20.0	20.0	20.0	19.5
31	--	--	20.0	19.5	--	--	20.0	20.0	20.0	19.5	--	--
AVG	14.0	13.5	18.5	18.0	22.5	22.0	20.5	20.0	20.5	20.0	19.0	19.0

07077080 Little Cache River Ditch No. 1 near McDougal, Ark.

LOCATION.--Lat 36°26'03", long 90°21'30", in NW¼NE¼ sec.30, T.21 N., R.7 E., Clay County, at bridge on U.S. Highway 62, 1.7 mi (2.7 km) east of McDougal, and 3.7 mi (6.0 km) upstream from Little Cache River ditch.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
04...	4.0	--	--	--	--	13	--	7.0	--	--	--	--
18...	2.3	--	--	--	--	45	--	9.5	--	--	--	--
31...	511	2700	550	6.0	10	17	8.0	5.0	1.7	.31	135	626
NOV.												
14...	506	--	--	--	--	17	--	6.0	--	--	--	--
29...	13	--	--	--	--	29	--	7.5	--	--	--	--
DEC.												
13...	571	--	--	--	--	7	--	2.5	--	--	--	--
JAN.												
03...	24	--	--	--	--	10	--	8.0	--	--	--	--
17...	81	--	--	--	--	24	--	6.0	--	--	--	--
30...	416	1320	140	5.0	3.0	17	<1.0	3.5	2.6	.38	190	133
FEB.												
13...	126	--	--	--	--	21	--	5.0	--	--	--	--
MAR.												
21...	190	--	--	--	--	31	--	6.0	--	--	--	--
APR.												
04...	402	--	--	--	--	23	--	4.0	--	--	--	--
16...	365	--	--	--	--	20	--	5.5	--	--	--	--
MAY												
01...	723	2150	200	6.0	3.0	25	<1.0	3.5	.90	.20	104	176
15...	230	--	--	--	--	35	--	4.0	--	--	--	--
JUNE												
20...	382	--	--	--	--	13	--	5.0	--	--	--	--
JULY												
17...	1.8	--	--	--	--	78	--	7.5	--	--	--	--
AUG.												
15...	85	--	--	--	--	53	--	7.5	--	--	--	--
21...	45	1760	1360	10	10	102	9.0	6.2	.66	.18	151	121
SEP.												
05...	42	--	--	--	--	163	--	8.5	--	--	--	--
17...	35	--	--	--	--	59	--	8.5	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
04...	--	--	--	102	6.9	25.0	--	100	6.7	51	1.0	--
18...	--	--	--	156	6.6	18.0	--	80	6.6	68	>6.6	--
31...	366	89	16	76	6.8	16.0	200	100	8.0	82	4.1	3500
NOV.												
14...	--	--	--	66	6.8	14.0	--	92	8.8	88	.8	--
29...	--	--	--	99	6.9	7.0	--	35	9.7	80	1.0	--
DEC.												
13...	--	--	--	67	6.6	4.0	--	65	11.0	84	2.7	--
JAN.												
03...	--	--	--	72	6.6	5.0	--	140	11.3	88	2.0	--
15...	--	--	--	88	6.0	5.0	--	40	12.3	96	1.3	--
30...	331	25	12	51	6.9	8.0	400	260	11.4	91	1.2	3050
FEB.												
13...	--	--	--	76	7.0	5.0	--	120	12.1	95	3.1	--
MAR.												
21...	--	--	--	81	6.9	10.0	--	260	9.3	82	4.4	--
APR.												
04...	--	--	--	65	6.7	11.0	--	150	8.6	65	2.3	3500
16...	--	--	--	87	6.9	10.0	--	220	8.6	84	--	20000
MAY												
11...	360	27	16	53	6.8	16.0	240	180	7.3	78	3.3	2300
15...	--	--	--	98	7.3	19.0	--	110	5.9	63	2.9	36000
JUNE												
28...	--	--	--	51	6.6	23.0	--	550	4.9	57	3.5	98000
JULY												
17...	--	--	--	176	7.5	26.0	--	50	3.5	44	1.9	600
AUG.												
15...	--	--	--	125	7.3	23.0	--	230	4.5	52	1.5	8500
21...	272	86	66	216	7.5	28.0	10	80	4.2	54	4.0	1250
SEP.												
05...	--	--	--	543	7.7	26.0	--	60	2.3	29	1.0	768
17...	--	--	--	166	7.6	21.0	--	100	3.5	39	1.5	1025

07077080 Little Cache River Ditch No. 1 near McDougal, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
06...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
31...	1000	>600	11	<2	<100	<5	60	17	<.1	<50	20
NOV.											
14...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
03...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
30...	370	2100	3	<2	<100	<5	60	20	1.2	<50	57
FEB.											
13...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
21...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	620	--	--	--	--	--	--	--	--	--	--
16...	9300	--	--	--	--	--	--	--	--	--	--
MAY											
01...	100	9300	<3	<5	<10	--	170	20	<.5	13	60
15...	175	--	--	--	--	--	--	--	--	--	--
JUNE											
20...	4500	--	--	--	--	--	--	--	--	--	--
JULY											
17...	156	--	--	--	--	--	--	--	--	--	--
AUG.											
15...	1750	--	--	--	--	--	--	--	--	--	--
21...	50	800	<3	<2	15	--	62	75	--	19	20
SEP.											
05...	32	--	--	--	--	--	--	--	--	--	--
17...	230	--	--	--	--	--	--	--	--	--	--

07077800 White River at Clarendon, Ark.
(National pesticide station)

LOCATION.--Lat 34°41'08", long 91°18'53", in W½ sec.22, T.1 N., R.3 W., Monroe County, at gaging station at St. Louis-Southwestern Railroad bridge at Clarendon, 1.1 mi (1.8 km) downstream from Cache River, and at mile 100.1 (161.1 km).

DRAINAGE AREA.--25,497 mi² (66,037 km²).

PERIOD OF RECORD.--Chemical analyses: October 1947 to September 1967, October 1970 to September 1973.
Water temperatures: October 1948 to September 1965.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
25...	15700	2.6	8	0	36	12	3.6	1.8	160	0	131	6.8
NOV.												
29...	62400	--	--	--	--	--	--	--	--	--	--	--
JAN.												
17...	45000	--	--	--	--	--	--	--	--	--	--	--
FEB.												
28...	60400	--	--	--	--	--	--	--	--	--	--	--
JUNE												
22...	45700	--	--	--	--	--	--	--	--	--	--	--
JULY												
26...	34500	--	--	--	--	--	--	--	--	--	--	--
AUG.												
15...	32500	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
OCT.												
25...	3.2	.1	.22	--	--	.08	166	.23	7040	138	6	5
NOV.												
29...	--	--	.16	--	--	.28	--	--	--	--	--	--
JAN.												
17...	--	--	.16	--	--	.12	--	--	--	--	--	--
FEB.												
28...	--	--	.22	--	--	.21	--	--	--	--	--	--
JUNE												
22...	--	--	.29	.00	.29	.16	--	--	--	--	--	--
JULY												
26...	--	--	.22	.01	.23	.08	--	--	--	--	--	--
AUG.												
15...	--	--	.27	.01	.28	.05	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
25...	.1	8.0	5	40	3	.8	2.6	900	290	92	12
NOV.											
29...	--	--	--	--	3	2.3	--	500	150	600	--
JAN.											
17...	--	--	--	--	26	1.3	--	360	E40	E60	10
FEB.											
28...	--	--	--	--	12	2.0	--	450	E80	80	--
JUNE											
22...	--	--	--	--	7	1.6	--	380	E22	120	--
JULY											
26...	--	--	--	--	12	1.0	--	2200	E230	280	--
AUG.											
15...	--	--	--	--	--	1.4	--	2100	E83	630	--

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)
OCT.											
25...	.00	.0	.0	0	.00	.0	.00	.0	.00	.0	.00

07077800 White River at Clarendon, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)
OCT.											
25...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)
OCT.										
25...	.00	.00	.0	0	.00	.0	.00	.0	.00	.0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.									
25...	<10	1	<10	0	2	0	.5	0	6

FIELD ANALYSES

DATE	DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
25...	15700	176	0	144	266	8.1	14.0	9.8	94	2.2
NOV.										
29...	62400	36	0	30	86	6.9	8.0	10.0	84	7.3
JAN.										
17...	45800	50	0	41	105	7.4	6.0	12.5	101	3.2
FEB.										
28...	60400	52	0	43	365	7.1	9.5	8.7	76	6.6
JUNE										
22...	45700	120	0	98	222	7.7	--	--	--	3.8
JULY										
24...	34500	130	0	107	234	7.6	26.5	5.3	65	5.2
AUG.										
15...	32500	--	--	--	242	7.5	26.0	--	--	--

BENTHIC INVERTEBRATE ANALYSES

JULY 24, 1973, RANDOM SAMPLE COLLECTED FROM SHALLOW EDGE TO DEEP RIVER BOTTOM WITH PETERSEN DREDGE AND 210 μ NITEX NET

DECAPODA	NO.	EPHEMEROPTERA	NO.	DIPTERA	NO.
Palaemonetes sp.	1	Stenonema sp.	2	Chironomidae	3

GASTROPODA	NO.	PELECYPODA	NO.
Viviparus sp.	3	Pisidium sp.	20
Goniobasis sp.	1		

07077950 Big Creek at Poplar Grove, Ark.

LOCATION.--Lat 34°33'20", long 90°50'44", in sec.1, T.2 S., R.2 E., Phillips County, at gaging station near right bank on downstream side of bridge on U.S. Highway 49 at Poplar Grove, 900 ft (274 m) upstream from Crooked Creek, and 3.9 mi (6.3 km) east of Marvel. Prior to September 30, 1972, at site 8.7 mi (14.0 km) downstream.

DRAINAGE AREA.--459 mi^2 (1,189 km^2), revised.

PERIOD OF RECORD.--Chemical analyses: October 1970 to Septembe: 1973.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.												
25...	43	18	150	400	25	10	9.4	5.7	136	0	112	4.6
NOV.												
29...	1600	--	--	--	--	--	--	--	--	--	--	--
JAN.												
17...	700	--	--	--	--	--	--	--	--	--	--	--
FEB.												
28...	938	--	--	--	--	--	--	--	--	--	--	--
JUNE												
22...	13	--	--	--	--	--	--	--	--	--	--	--
JULY												
24...	13	--	--	--	--	--	--	--	--	--	--	--
AUG.												
15...	53	--	--	--	--	--	--	--	--	--	--	--

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	DIS-SOLVED SOLIDS (TONS PER DAY)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM
OCT.												
25...	15	.0	.22	--	--	.17	165	.22	19.2	100	0	16
NOV.												
29...	--	--	.14	--	--	.18	--	--	--	--	--	--
JAN.												
17...	--	--	.20	--	--	.14	--	--	--	--	--	--
FEB.												
28...	--	--	.27	--	--	.21	--	--	--	--	--	--
JUNE												
22...	--	--	.66	.00	.66	.16	--	--	--	--	--	--
JULY												
24...	--	--	.19	.04	.23	.08	--	--	--	--	--	--
AUG.												
15...	--	--	.21	.02	.23	.10	--	--	--	--	--	--

DATE	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.											
25...	.4	7.7	30	95	32	1.0	4.3	920	190	1800	--
NOV.											
29...	--	--	--	--	22	2.1	--	E320	E7	400	--
JAN.											
17...	--	--	--	--	22	.9	--	E150	E27	80	10
FEB.											
28...	--	--	--	--	15	1.5	--	460	E53	E20	--
JUNE											
22...	--	--	--	--	17	2.1	--	E140	E27	E72	--
JULY											
24...	--	--	--	--	10	1.4	--	1600	590	140	--
AUG.											
15...	--	--	--	--	--	1.0	--	E350	E130	840	--

07077950 Big Creek at Poplar Grove, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT. 25...	13	0	<10	0	4	0	<.5	1	7

FIELD ANALYSES

DATE	MEAN DAILY DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT. 25...	43	148	0	121	261	7.6	14.0	5.2	50	5.9
NOV. 29...	1600	44	0	36	94	7.3	7.0	9.8	81	3.5
JAN. 17...	700	48	0	39	107	7.4	4.5	10.8	83	3.1
FEB. 28...	938	40	0	33	363	7.1	9.0	8.1	70	5.1
JUNE 22...	13	184	0	151	329	7.4	--	--	--	12
JULY 24...	13	240	0	197	408	7.7	28.5	2.2	28	7.7
AUG. 15...	53	--	--	--	361	7.6	27.0	--	--	--

PHYTOPLANKTON ANALYSES

DATE	TOTAL COUNT CELLS/ML	CODOMINANTS(S)	% COMPOSITION
July 24, 1973	120,000	*Microcystis* sp.	27
		Merismopedia sp.	19
		Lyngbya sp.	15
		Scenedesmus sp.	15

BENTHIC INVERTEBRATE ANALYSES

JULY 24, 1973, COLLECTED BY A MULTIPLE-PLATE SAMPLER ATTACHED TO BRIDGE
JUNE 22, 1973, AND REMOVED JULY 24, 1973

TAXA	NO.	BIOMASS g/m^2
Ephemeroptera	10	0.75
Odonata (Zygoptera)	2	
Diptera (Chironomidae)	31	

JULY 24, 1973, COLLECTED BY A MULTIPLE-PLATE SAMPLER ATTACHED TO OVERHANGING TREE LIMB
50 YARDS (46 M) DOWNSTREAM FROM BRIDGE ON JUNE 22, 1973, AND REMOVED JULY 24, 1973

TAXA		BIOMASS g/m^2
Decapoda	5	1.61
Ephemeroptera	1	
Hemiptera (Corixidae)	20	
Coleoptera (Dytiscidae)	2	

07078285 White River at Lock and Dam 1, near Nady, Ark.

LOCATION.--Lat 34°01'35", long 91°11'08", in sec.1, T.8 S., R.2 W., Arkansas County, at Lock and Dam 1, 3.4 mi (5.5 km) northeast of Nady.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
10...	19000	--	--	--	--	40	--	3.5	--	--	--	--
24...	13000	--	--	--	--	104	--	4.0	--	--	--	--
NOV.												
08...	40000	--	--	--	--	63	--	4.5	--	--	--	--
20...	76000	--	--	--	--	17	--	3.0	--	--	--	--
DEC.												
06...	61000	--	--	--	--	95	--	4.0	--	--	--	--
19...	67000	950	60	14	6.0	61	5.7	5.5	<.10	.07	95	40
JAN.												
10...	49000	--	--	--	--	--	--	4.5	--	--	--	--
13...	--	--	--	--	--	27	--	--	--	--	--	--
23...	52000	--	--	--	--	32	--	3.5	--	--	--	--
FEB.												
06...	67000	--	--	--	--	62	--	4.0	--	--	--	--
20...	--	--	--	--	--	28	--	4.0	--	--	--	--
21...	82000	--	--	--	--	--	--	--	--	--	--	--
MAR.												
13...	62000	--	--	--	--	67	--	6.0	--	--	--	--
27...	109000	530	51	22	9.0	84	7.0	3.0	.70	.08	117	33
APR.												
10...	101000	--	--	--	--	68	--	3.5	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	110000	--	--	--	--	64	--	2.5	--	--	--	--
MAY												
09...	36000	--	--	--	--	62	--	2.5	--	--	--	--
21...	140000	--	--	--	--	65	--	4.0	--	--	--	--
JUNE												
13...	62000	--	--	--	--	E76	--	E3.0	--	--	--	--
26...	47000	620	210	26	7.0	106	4.0	5.0	<.10	.11	128	10
JULY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
24...	35000	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	119	--	4.5	--	--	--	--
AUG.												
08...	--	--	--	--	--	115	--	4.5	--	--	--	--
28...	--	1020	75	30	11	116	7.0	6.5	.61	.06	163	98
SEP.												
12...	--	--	--	--	--	122	--	8.0	--	--	--	--
26...	--	--	--	--	--	118	--	6.5	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	195	7.3	22.0	--	79	7.7	88	2.1	--
24...	--	--	--	236	7.4	17.0	--	65	8.6	89	1.5	--
NOV.												
08...	--	--	--	147	7.5	11.0	--	160	7.6	67	2.6	--
20...	--	--	--	56	6.5	8.0	--	<25	9.5	80	1.0	--
DEC.												
06...	--	--	--	176	7.4	7.0	--	<25	8.6	71	.9	--
19...	135	60	34	121	7.3	6.0	80	35	11.1	89	3.1	1326
JAN.												
10...	--	--	--	69	--	1.0	--	--	10.1	--	--	--
13...	--	--	--	--	6.9	--	--	<25	--	71	.8	--
23...	--	--	--	88	7.0	6.0	--	45	8.9	71	1.3	--
FEB.												
06...	--	--	--	140	7.3	11.0	--	30	8.8	79	2.8	--
20...	--	--	--	70	7.0	9.0	--	70	9.8	84	1.6	--
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
13...	--	--	--	156	6.9	15.0	--	30	6.9	68	2.9	--
27...	150	92	56	170	7.4	14.0	50	40	8.7	84	1.3	400
APR.												
10...	--	--	--	147	7.2	13.0	--	<25	<5.4	51	2.2	--
11...	--	--	--	--	--	--	--	--	--	--	--	230
25...	--	--	--	136	7.0	19.0	--	19	3.9	42	2.0	520
MAY												
09...	--	--	--	130	7.1	21.0	--	31	3.7	42	3.0	440
21...	--	--	--	142	7.1	20.0	--	10	4.1	45	2.2	210
JUNE												
13...	--	--	--	E156	E7.2	E26.0	--	E7	E1.7	E21	E2.3	--
26...	130	96	64	196	7.6	28.0	10	6	5.3	68	5.1	850
JULY												
08...	--	--	--	--	--	--	--	--	--	--	--	420
24...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	217	7.8	28.0	--	37	7.1	91	2.3	3660
AUG.												
08...	--	--	--	223	7.9	25.0	--	27	7.5	90	2.1	--
28...	261	120	76	231	8.0	25.0	5	33	7.4	89	1.2	90
SEP.												
12...	--	--	--	242	7.8	22.0	--	48	7.4	85	1.2	420
26...	--	--	--	217	7.8	21.0	--	33	7.7	86	1.2	120

07078285 White River at Lock and Dam 1, near Nady, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	113	220	23	<2	<100	5	10	19	<.4	<50	14
JAN.											
10...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
06...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
13...	--	--	--	--	--	--	--	--	--	--	--
27...	20	73	<3	<2	<10	--	5	8	<.1	17	12
APR.											
10...	--	--	--	--	--	--	--	--	--	--	--
11...	<5	--	--	--	--	--	--	--	--	--	--
25...	28	--	--	--	--	--	--	--	--	--	--
MAY											
09...	4	--	--	--	--	--	--	--	--	--	--
21...	20	--	--	--	--	--	--	--	--	--	--
JUNE											
13...	--	--	--	--	--	--	--	--	--	--	--
26...	120	106	<3	<2	<5	--	<7	<7	<.4	14	<4
JULY											
08...	37	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	22	--	--	--	--	--	--	--	--	--	--
AUG.											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	15	55	<3	<2	42	--	<20	5	--	<2	<4
SEP.											
12...	20	--	--	--	--	--	--	--	--	--	--
26...	15	--	--	--	--	--	--	--	--	--	--

07188820 Little Sugar Creek at Caverna, Mo.

LOCATION.--Lat 36°50'10", long 94°16'30", in SW¼NE¼ sec.34, T.21 N., R.31 W., McDonald County, at bridge on U.S. Highway 71, 0.5 mi (0.8 km) north of Caverna, Mo., and 0.1 mi (0.2 km) downstream from Bear Creek.

DRAINAGE AREA.--118 mi² (306 km²), at State line.

PERIOD OF RECORD.--Chemical analyses: August 1967 to September 1973.

REMARKS.--Additional analyses furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT. 03...	23	10	20	0	50	1.6	8.1	2.4	184	0
NOV. 15...	390	9.7	10	30	66	1.8	4.3	2.5	144	0
DEC. 16...	100	7.3	20	10	50	1.6	5.3	1.8	156	0
JAN. 16...	90	5.8	10	10	58	1.6	5.0	1.6	144	0
FEB. 14...	195	7.6	10	10	44	1.2	4.0	1.7	136	0
MAR. 14...	410	8.0	10	60	42	1.3	3.7	1.6	122	0
APR. 12...	322	7.5	0	20	42	1.1	3.7	1.6	124	0
MAY 16...	250	7.8	10	30	45	1.4	3.8	1.7	138	0
JUNE 13...	199	9.5	40	20	47	1.2	3.5	1.4	144	0
JULY 11...	100	10	110	20	53	1.4	4.6	1.6	160	0
AUG. 07...	110	.6	20	40	58	1.5	5.6	1.8	176	0
SEP. 05...	102	9.3	40	20	47	1.5	5.3	2.3	148	0

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS_SOLVED NITRATE (NO3) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS_SOLVED NITRITE (NO2) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)
OCT. 03...	151	10	8.6	.1	.50	2.2	--	--	--	--
NOV. 15...	118	6.6	6.9	.0	1.7	7.5	--	--	--	--
DEC. 16...	128	6.4	6.4	.0	2.0	8.9	--	--	--	--
JAN. 16...	118	6.4	13	.1	.90	4.0	--	--	--	--
FEB. 14...	112	6.0	7.2	.1	1.3	5.8	--	--	--	--
MAR. 14...	100	13	4.0	.0	2.1	9.3	--	--	--	--
APR. 12...	102	8.0	4.6	.0	1.7	7.5	--	--	--	--
MAY 16...	113	4.8	4.1	.0	1.6	7.1	--	--	--	--
JUNE 13...	118	5.7	4.0	.0	1.3	5.8	--	.00	.0	--
JULY 11...	131	6.0	5.7	.0	.03	--	.00	--	--	.03
AUG. 07...	144	5.8	7.5	.0	.90	--	.01	--	--	.91
SEP. 05...	121	5.5	7.1	.0	.73	--	.02	--	--	.75

07188820 Little Sugar Creek at Caverna, Mo.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	AMMONIA NITRO- GEN (N) (MG/L)	DIS- SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM
OCT.										
03...	.02	.03	.00	.21	180	.24	11.2	150	0	10
NOV.										
15...	.00	.00	.09	.53	151	.21	143	120	6	7
DEC.										
18...	.02	.03	.01	.26	161	.22	43.5	130	6	8
JAN.										
16...	.10	.13	.21	.11	164	.22	39.9	130	14	8
FEB.										
14...	.00	.00	.01	.12	140	.19	73.7	120	6	8
MAR.										
14...	.00	.00	.00	.20	134	.18	148	110	10	7
APR.										
12...	.00	.00	.00	.08	115	.16	100	110	8	7
MAY										
16...	.00	.00	.00	.09	141	.19	95.2	120	5	6
JUNE										
13...	.03	.04	.15	.13	176	.24	93.5	120	2	6
JULY										
11...	.00	--	.07	.15	173	.24	46.7	140	9	7
AUG.										
07...	.02	--	.15	.13	180	.24	53.5	150	7	7
SEP.										
05...	.12	--	.08	.22	163	.22	44.9	120	0	8

DATE	SODIUM AD- SORP- TION RATIO	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)
OCT.									
03...	.3	326	7.8	18.5	5	0	4.7	140	240
NOV.									
15...	.2	263	7.5	11.0	3	2	7.3	300	330
DEC.									
18...	.2	282	7.9	6.0	3	0	3.1	<2	4
JAN.									
16...	.2	278	7.9	7.5	5	6	2.9	40	14
FEB.									
14...	.2	263	7.9	7.5	5	0	2.7	37	44
MAR.									
14...	.2	235	7.7	14.0	10	2	3.9	1000	230
APR.									
12...	.2	248	8.0	12.0	2	0	2.0	30	50
MAY									
16...	.2	257	8.2	17.0	5	7	1.4	20	36
JUNE									
13...	.1	253	7.8	20.0	1	2	3.7	440	350
JULY									
11...	.2	287	7.7	20.5	1	0	5.1	80	580
AUG.									
07...	.2	330	7.9	22.0	1	4	3.5	12	250
SEP.									
05...	.2	285	7.6	22.0	7	9	6.0	1300	15000

07188820 Little Sugar Creek at Caverna, Mo.--Continued

ADDITIONAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	TOTAL MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS $CACO_3$ (MG/L)	DIS-SOLVED SULFATE (SO_4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.										
03...	6	--	--	--	--	--	--	--	--	--
17...	6	--	--	--	--	--	--	--	--	--
30...	370	--	--	--	--	--	--	--	--	--
NOV.										
13...	880	--	--	--	--	--	--	--	--	--
27...	146	--	--	--	--	--	--	--	--	--
JAN.										
01...	320	--	--	--	--	--	--	--	--	--
16...	56	--	--	--	--	--	--	--	--	--
29...	225	--	--	--	--	--	--	--	--	--
FEB.										
12...	515	--	--	--	--	107	--	7	--	--
26...	74	--	--	--	--	122	--	9	--	--
MAR.										
19...	515	--	--	--	--	106	--	7	--	--
APR.										
03...	--	40	16	--	1.0	89	5	5	5.44	.14
04...	185	--	--	--	--	--	--	--	--	--
17...	820	--	--	--	--	92	--	6	--	--
MAY										
01...	562	--	--	--	--	--	--	--	--	--
14...	225	--	--	--	--	--	--	--	--	--
29...	370	--	--	--	--	111	--	5	--	--
JUNE										
18...	121	--	--	--	--	123	--	3	--	--
JULY										
16...	--	--	--	--	--	134	--	8	--	--
30...	--	--	--	--	--	138	--	9	--	--
AUG.										
13...	--	--	--	--	--	135	--	9	--	--
20...	--	--	--	--	--	143	--	12	--	--
SEP.										
04...	--	124	24	--	2.0	140	7	9	.44	.18
18...	--	--	--	--	--	145	--	9	--	--

DATE	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS $CACO_3$ (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)
FEB.										
12...	--	--	--	--	--	246	7.8	4.0	--	<25.0
26...	--	--	--	--	--	265	8.0	10.0	--	<25.0
MAR.										
19...	--	--	--	--	--	236	7.8	15.0	--	<25.0
APR.										
03...	136	91	227	98	94	187	7.6	9.0	40	75.0
17...	--	--	--	--	--	210	7.7	12.0	--	60.0
MAY										
29...	--	--	--	--	--	240	7.8	17.0	--	6.4
JUNE										
18...	--	--	--	--	--	246	8.0	23.5	--	4.2
JULY										
16...	--	--	--	--	--	266	7.6	22.0	--	8.3
30...	--	--	--	--	--	280	7.9	23.0	--	7.2
AUG.										
13...	--	--	--	--	--	281	7.9	26.0	--	8.4
20...	--	--	--	--	--	288	8.0	29.0	--	6.8
SEP.										
04...	179	19	198	142	134	275	8.0	28.0	0	7.9
18...	--	--	--	--	--	303	8.0	19.0	--	6.5

07188820 Little Sugar Creek at Caverna, Mo.--Continued

ADDITIONAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	FECAL COLI-FORM (COL. PER 100 ML)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL. PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)
OCT.									
03...	--	--	--	16	260	>400	--	--	--
FEB.									
12...	11.5	88	1.5	--	--	--	--	--	--
26...	12.9	114	1.7	--	--	--	--	--	--
MAR.									
19...	10.0	98	1.3	--	--	--	--	--	--
APR.									
03...	10.1	87	.8	--	--	--	<5	<2	<10
17...	10.4	96	.9	--	--	--	--	--	--
MAY									
29...	9.6	99	1.0	84	128	--	--	--	--
JUNE									
18...	10.4	122	2.4	<5	8	--	--	--	--
JULY									
16...	8.7	99	1.6	<4	<4	--	--	--	--
30...	9.3	106	2.3	<4	136	--	--	--	--
AUG.									
13...	8.9	109	3.1	4	28	--	--	--	--
20...	10.8	128	2.8	<4	<4	--	--	--	--
SEP.									
04...	8.5	107	2.8	52	200	168	<5	<2	7
18...	9.0	96	2.4	<4	<6	--	--	--	--

DATE	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
APR.					
03...	35	53	<0.6	17	57
SEP.					
04...	32	6	--	7	14

07188910 Butler Creek near Sulphur Springs, Ark.

LOCATION.--Lat 36°30'48", long 94°28'58", in NW¼NW¼ sec.35, T.21 N., R.33 W., McDonald County, Mo., at bridge on county road about 500 ft (152 m) west of State Highway 59, 0.9 mi (1.4 km) north of State line along Highway 59, 2.0 mi (3.2 km) northwest of Sulphur Springs.

DRAINAGE AREA.--34.9 mi² (90.4 km²), at State line.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT.												
03...	.60	--	<100	25	66	17	73	7.2	11	2.4	<.01	205
17...	7.0	--	--	--	--	--	162	--	15	--	--	--
30...	110	--	--	--	--	--	136	--	6.0	--	--	--
NOV.												
13...	180	--	--	--	--	--	112	--	6.1	--	--	--
27...	55	--	--	--	--	--	120	--	6.5	--	--	--
JAN.												
02...	25	--	60	60	47	6.0	137	11	6.1	.05	.03	172
16...	31	--	--	--	--	--	133	--	5.5	--	--	--
29...	75	--	--	--	--	--	112	--	6.5	--	--	--
FEB.												
12...	31	--	--	--	--	--	113	--	5.5	--	--	--
26...	25	--	--	--	--	--	119	--	7.0	--	--	--
MAR.												
19...	55	--	--	--	--	--	110	--	6.0	--	--	--
APR.												
03...	--	--	70	50	36	3.0	93	6.0	3.5	1.2	.16	162
06...	360	--	--	--	--	--	--	--	--	--	--	--
17...	260	--	--	--	--	--	101	--	6.5	--	--	--
30...	--	--	--	--	--	--	116	--	6.5	--	--	--
MAY												
01...	210	--	--	--	--	--	--	--	--	--	--	--
14...	110	--	--	--	--	--	123	--	5.1	--	--	--
29...	135	--	--	--	--	--	121	--	6.5	--	--	--
JUNE												
18...	16	--	--	--	--	--	133	--	6.3	--	--	--
JULY												
10...	--	2.0	--	--	--	--	166	--	6.0	--	--	--
30...	--	10	--	--	--	--	161	--	15	--	--	--
AUG.												
13...	--	.08	--	--	--	--	130	--	11	--	--	--
20...	--	6.0	--	--	--	--	137	--	11	--	--	--
SEP.												
04...	--	--	60	<20	50	5.1	139	7.0	10	.20	.02	101
05...	--	65	--	--	--	--	--	--	--	--	--	--
10...	--	.08	--	--	--	--	160	--	11	--	--	--

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.												
03...	12	217	190	116	302	8.1	19.5	5	20	9.0	97	1.6
17...	--	--	--	--	333	7.6	17.5	--	22	8.6	89	1.6
30...	--	--	--	--	292	7.7	14.0	--	75	8.6	83	2.0
NOV.												
13...	--	--	--	--	220	7.7	10.0	--	40	10.2	90	1.7
27...	--	--	--	--	251	7.8	9.0	--	<25	10.5	91	.5
JAN.												
02...	3	175	150	110	271	7.7	4.0	0	<25	12.9	100	--
16...	--	--	--	--	284	8.3	9.0	--	<25	14.6	120	2.4
29...	--	--	--	--	248	7.6	7.0	--	<25	11.0	97	1.8
FEB.												
12...	--	--	--	--	252	8.1	8.5	--	<25	11.0	100	1.4
26...	--	--	--	--	266	8.2	9.0	--	<25	13.6	117	1.7
MAR.												
19...	--	--	--	--	242	7.9	15.0	--	<25	10.2	100	1.1
APR.												
03...	103	245	97	88	188	7.7	10.0	60	90	10.4	92	1.0
06...	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	221	7.8	17.0	--	<25	10.1	105	1.0
30...	--	--	--	--	241	7.8	17.0	--	2	10.0	103	1.0
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	241	8.0	17.0	--	2	10.5	108	1.6
29...	--	--	--	--	240	7.8	17.0	--	2	9.7	100	.7
JUNE												
18...	--	--	--	--	255	8.2	22.5	--	1	10.3	118	3.5
JULY												
10...	--	--	--	--	277	8.0	24.5	--	1	9.1	108	1.7
30...	--	--	--	--	287	8.0	26.0	--	1	8.6	105	.5
AUG.												
13...	--	--	--	--	278	8.0	26.0	--	1	9.0	110	2.0
20...	--	--	--	--	279	8.0	29.0	--	1	9.0	117	1.0
SEP.												
04...	5	186	150	126	275	8.0	25.0	0	1	9.0	108	1.7
05...	--	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	311	8.0	17.0	--	1	8.7	101	1.3

07108910 Butler Creek near Sulphur Springs, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.												
03...	721	620	730	--	<2	<50	--	57	<100	<.1	<50	29
17...	--	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
02...	0	0	--	<3	3	<100	<5	50	<2	<.1	<50	12
16...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
12...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
03...	5000	2600	--	<3	<2	<10	--	31	21	<.1	37	36
06...	--	--	--	--	--	--	--	--	--	--	--	--
17...	26	10	--	--	--	--	--	--	--	--	--	--
30...	20	<5	--	--	--	--	--	--	--	--	--	--
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	52	12	--	--	--	--	--	--	--	--	--	--
29...	250	260	--	--	--	--	--	--	--	--	--	--
JUNE												
18...	6	5	--	--	--	--	--	--	--	--	--	--
JULY												
16...	<6	<6	--	--	--	--	--	--	--	--	--	--
30...	0	6	--	--	--	--	--	--	--	--	--	--
AUG.												
13...	75	12	--	--	--	--	--	--	--	--	--	--
27...	32	<6	--	--	--	--	--	--	--	--	--	--
SEP.												
04...	80	60	190	<3	<2	<6	--	<20	<5	--	3	7
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	<6	<6	--	--	--	--	--	--	--	--	--	--

07191220 Spavinaw Creek near Sycamore, Okla.

LOCATION.--Lat 36°19'57", long 94°38'24", in NE¼SW¼ sec.4, T.21 N., R.25 E., Delaware County, at gaging station on right bank 1.8 mi (2.9 km) upstream from Cherokee Creek, 4.8 mi (7.7 km) northeast of Row, 6.5 mi (10.4 km) southeast of Sycamore, and at mile 35.0 (56.3 km).

DRAINAGE AREA.--133 mi² (344 km²).

PERIOD OF RECORD.--Chemical analyses: October 1971 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
03...	20	--	--	--	--	57	--	10	--	--	--	--
17...	13	70	<25	55	3.0	119	4.0	10	<.10	.01	177	7
30...	39	--	--	--	--	126	--	9.0	--	--	--	--
NOV.												
13...	693	--	--	--	--	88	--	7.5	--	--	--	--
27...	180	--	--	--	--	96	--	9.5	--	--	--	--
JAN.												
02...	82	--	--	--	--	108	--	9.5	--	--	--	--
16...	86	<50	<20	39	3.0	99	13	8.0	1.1	.07	151	--
29...	235	--	--	--	--	79	--	7.5	--	--	--	--
FEB.												
28...	100	--	--	--	--	67	--	9.0	--	--	--	--
MAR.												
19...	235	--	--	--	--	70	--	8.0	--	--	--	--
APR.												
03...	--	--	--	--	--	67	--	6.0	--	--	--	--
06...	812	--	--	--	--	--	--	--	--	--	--	--
17...	701	68	21	26	1.0	60	5.0	6.5	2.3	.03	110	26
30...	--	--	--	--	--	70	--	6.0	--	--	--	--
MAY												
01...	465	--	--	--	--	--	--	--	--	--	--	--
16...	343	--	--	--	--	85	--	6.5	--	--	--	--
29...	300	--	--	--	--	90	--	6.5	--	--	--	--
JUNE												
18...	162	--	--	--	--	97	--	7.0	--	--	--	--
JULY												
16...	90	--	--	--	--	[illegible]	--	8.0	--	--	--	--
30...	61	--	--	--	--	109	--	10	--	--	--	--
AUG.												
13...	--	--	--	--	--	116	--	10	--	--	--	--
29...	51	--	--	--	--	116	--	11	--	--	--	--
SEP.												
04...	--	--	--	--	--	123	--	11	--	--	--	--
05...	66	--	--	--	--	--	--	--	--	--	--	--
10...	63	<30	<20	46	1.0	117	4.0	--	1.0	.02	161	2

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
03...	--	--	--	316	7.7	21.0	--	10	8.9	99	1.6	--
17...	184	150	138	293	7.1	19.0	5	25	8.4	89	2.4	3100
30...	--	--	--	282	7.3	--	--	25	8.9	--	.8	--
NOV.												
13...	--	--	--	197	7.6	14.0	--	46	9.0	87	1.0	--
27...	--	--	--	211	7.6	10.0	--	<25	9.5	85	.5	--
JAN.												
02...	--	--	--	226	7.3	6.0	--	<25	10.9	92	.7	--
16...	168	110	98	227	7.6	11.0	0	<25	11.5	106	1.1	--
29...	--	--	--	203	7.6	6.0	--	<25	10.6	81	1.3	--
FEB.												
28...	--	--	--	217	7.6	10.0	--	<25	11.3	101	.3	--
MAR.												
19...	--	--	--	191	7.6	13.5	--	<25	9.6	91	.2	--
APR.												
03...	--	--	--	162	7.5	11.0	--	<25	10.0	98	.6	260
06...	--	--	--	--	--	--	--	--	--	--	--	--
17...	136	69	66	166	7.5	16.0	15	<25	9.0	99	.7	660
30...	--	--	--	199	7.5	16.0	--	1	9.5	96	.6	200
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	186	7.7	18.0	--	1	10.2	100	1.6	200
29...	--	--	--	195	7.6	19.0	--	2	8.7	93	1.1	275
JUNE												
18...	--	--	--	200	7.8	22.0	--	1	10.4	119	1.5	80
JULY												
16...	--	--	--	226	7.8	20.0	--	1	9.6	106	2.9	--
30...	--	--	--	244	7.7	23.0	--	0	8.0	92	.9	93
AUG.												
13...	--	--	--	260	7.6	21.0	--	0	8.2	91	1.3	83
29...	--	--	--	267	7.5	20.0	--	0	8.1	103	1.2	173
SEP.												
04...	--	--	--	260	7.6	21.0	--	0	8.2	91	2.1	26
05...	--	--	--	--	--	--	--	--	--	--	--	--
10...	163	120	116	--	7.6	--	0	0	--	96	.7	80

07191220 Spavinaw Creek near Sycamore, Okla.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
03...	--	--	--	--	--	--	--	--	--	--	--
17...	2000	608	<3	2	90	--	11	<100	<.2	<50	9
30...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
13...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	<3	<2	<100	<5	<10	15	<.1	<50	3
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
26...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	--	--	--	--	--	--	--	--	--	--	--
APR.											
03...	740	1550	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
17...	140	100	<3	<5	<10	--	<5	15	<.4	8	<3
30...	27	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
14...	40	--	--	--	--	--	--	--	--	--	--
29...	284	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	5	--	--	--	--	--	--	--	--	--	--
JULY											
16...	--	--	--	--	--	--	--	--	--	--	--
30...	4	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	<3	--	--	--	--	--	--	--	--	--	--
20...	<4	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	36	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
18...	<4	20	3	<2	<4	--	<20	<4	--	<4	4

07195430 Illinois River south of Siloam Springs, Ark.

LOCATION.--Lat 36°06'31", long 94°32'00", in SE¼NE¼ sec.31, T.17 N., R.33 W., Benton County, at bridge on State Highway 59, 5.0 mi (8.0 km) south of Siloam Springs.

DRAINAGE AREA.--575 mi² (1,489 km²), at State line.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
03...	260	--	--	--	--	41	--	8.5	--	--	--	--
17...	100	200	60	45	3.0	105	5.0	10	<.10	.34	158	17
30...	240	--	--	--	--	99	--	8.5	--	--	--	--
NOV.												
13...	2800	--	--	--	--	70	--	6.5	--	--	--	--
27...	650	--	--	--	--	82	--	7.0	--	--	--	--
JAN.												
02...	320	--	--	--	--	97	--	8.5	--	--	--	--
16...	42	145	65	37	4.0	94	19	8.0	1.1	.10	145	2
29...	1100	--	--	--	--	70	--	7.0	--	--	--	--
FEB.												
12...	1200	--	--	--	--	68	--	6.5	--	--	--	--
26...	470	--	--	--	--	90	--	9.0	--	--	--	--
MAR.												
19...	860	--	--	--	--	74	--	7.5	--	--	--	--
APR.												
03...	--	--	--	--	--	62	--	5.5	--	--	--	--
04...	3900	--	--	--	--	--	--	--	--	--	--	--
17...	3500	310	41	24	1.0	56	6.0	6.0	2.4	.12	105	27
30...	--	--	--	--	--	69	--	6.0	--	--	--	--
MAY												
01...	1500	--	--	--	--	--	--	--	--	--	--	--
14...	1400	--	--	--	--	74	--	6.0	--	--	--	--
29...	1200	--	--	--	--	76	--	6.0	--	--	--	--
JUNE												
18...	650	--	--	--	--	93	--	8.0	--	--	--	--
JULY												
16...	450	--	--	--	--	91	--	8.5	--	--	--	--
30...	160	--	--	--	--	105	--	11	--	--	--	--
AUG.												
13...	240	--	--	--	--	103	--	11	--	--	--	--
20...	200	--	--	--	--	108	--	14	--	--	--	--
SEP.												
04...	--	--	--	--	--	100	--	9.5	--	--	--	--
05...	540	--	--	--	--	--	--	--	--	--	--	--
18...	190	127	32	43	2.0	113	7.0	10	1.5	.24	156	14

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
03...	--	--	--	239	7.6	21.0	--	25	7.7	86	1.3	--
17...	175	130	112	280	7.3	18.0	10	15	7.4	78	.5	3660
30...	--	--	--	250	7.5	15.0	--	40	7.6	75	.3	--
NOV.												
13...	--	--	--	169	7.4	12.0	--	92	8.6	80	2.0	--
27...	--	--	--	199	7.5	8.0	--	<25	9.9	84	.8	--
JAN.												
02...	--	--	--	229	7.3	4.0	--	<25	11.0	84	.7	--
16...	147	110	92	231	7.5	8.5	5	25	12.1	103	1.8	--
29...	--	--	--	192	7.3	4.0	--	<25	11.5	88	2.2	--
FEB.												
12...	--	--	--	185	7.7	6.0	--	<25	10.6	90	1.0	--
26...	--	--	--	226	7.8	9.0	--	<25	10.3	89	1.2	--
MAR.												
19...	--	--	--	190	7.7	14.5	--	<25	9.5	93	1.1	--
APR.												
03...	--	--	--	156	7.5	12.0	--	40	9.6	89	.9	3000
04...	--	--	--	--	--	--	--	--	--	--	--	--
17...	132	64	60	147	7.3	15.0	40	<25	9.5	94	1.2	5200
30...	--	--	--	177	7.4	17.0	--	11	8.8	91	.9	<12
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	173	7.6	18.0	--	9	9.4	100	1.5	630
29...	--	--	--	179	7.6	19.0	--	12	8.8	94	.7	2500
JUNE												
18...	--	--	--	205	7.9	23.5	--	4	9.1	107	1.4	115
JULY												
16...	--	--	--	197	7.9	24.0	--	10	8.9	105	3.8	743
30...	--	--	--	239	8.0	26.0	--	6	9.0	111	1.6	104
AUG.												
13...	--	--	--	233	7.9	27.0	--	6	8.6	107	2.9	150
20...	--	--	--	247	7.8	25.0	--	8	7.4	88	3.4	33
SEP.												
04...	--	--	--	234	7.7	26.0	--	10	8.0	98	1.5	366
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	170	120	108	255	7.8	22.0	0	7	9.4	108	2.2	50

07195430 Illinois River south of Siloam Springs, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
03...	--	--	--	--	--	--	--	--	--	--	--
17...	280	20	<3	<2	<50	--	76	<100	<.1	<50	18
30...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
13...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	<3	<2	<100	5	<10	24	<.1	<50	83
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
14...	--	--	--	--	--	--	--	--	--	--	--
APR.											
03...	1200	15000	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
17...	1900	590	<3	<5	<10	--	29	13	<.4	20	24
30...	<10	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
14...	220	--	--	--	--	--	--	--	--	--	--
29...	740	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	<6	--	--	--	--	--	--	--	--	--	--
JULY											
16...	410	--	--	--	--	--	--	--	--	--	--
30...	6	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	7	--	--	--	--	--	--	--	--	--	--
20...	<5	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	40	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
18...	67	83	<3	3	<4	--	<20	<4	--	<4	4

07195850 Flint Creek north of Siloam Springs, Ark.

LOCATION.--Lat 36°13'53", long 94°33'20", in NE¼SE¼ sec.23, T.18 N., R.34 W., Benton County, at bridge on State Highway 43, upstream from confluence with Little Flint Creek, 3.0 mi (4.8 km) northwest of Siloam Springs.

DRAINAGE AREA.--34.0 mi² (88.1 km²), above Little Flint Creek.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT.												
03...	3.0	--	--	--	--	--	60	--	8.0	--	--	--
17...	18	--	110	70	61	8.0	85	2.0	7.5	<.10	<.01	116
30...	8.0	--	--	--	--	--	88	--	6.5	--	--	--
NOV.												
13...	--	98	--	--	--	--	66	--	6.0	--	--	--
27...	--	80	--	--	--	--	75	--	7.5	--	--	--
JAN.												
02...	21	--	--	--	--	--	89	--	5.5	--	--	--
16...	15	--	275	115	36	1.0	82	17	7.0	1.1	<.01	127
29...	44	--	--	--	--	--	59	--	7.0	--	--	--
FEB.												
12...	31	--	--	--	--	--	63	--	7.0	--	--	--
26...	12	--	--	--	--	--	80	--	9.0	--	--	--
MAR.												
19...	--	--	--	--	--	--	61	--	7.0	--	--	--
APR.												
03...	--	--	--	--	--	--	63	--	5.0	--	--	--
17...	--	--	90	<10	22	2.0	52	5.0	6.0	2.6	.05	95
30...	--	--	--	--	--	--	60	--	6.0	--	--	--
MAY												
14...	44	--	--	--	--	--	63	--	5.0	--	--	--
29...	44	--	--	--	--	--	76	--	7.0	--	--	--
JUNE												
18...	--	--	--	--	--	--	80	--	8.0	--	--	--
JULY												
16...	--	22	--	--	--	--	87	--	8.5	--	--	--
30...	--	25	--	--	--	--	91	--	8.0	--	--	--
AUG.												
13...	--	9.0	--	--	--	--	92	--	8.5	--	--	--
20...	--	16	--	--	--	--	103	--	10	--	--	--
SEP.												
04...	--	--	--	--	--	--	94	--	8.0	--	--	--
18...	--	1.0	212	63	35	2.0	92	9.0	--	1.3	.03	130

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.												
03...	--	--	--	--	216	7.8	22.0	--	15	8.7	99	1.6
17...	4	118	140	102	324	7.3	19.0	5	15	8.5	91	1.4
30...	--	--	--	--	226	7.4	14.0	--	35	8.1	78	.6
NOV.												
13...	--	--	--	--	157	7.2	14.0	--	37	8.7	84	.8
27...	--	--	--	--	180	7.5	8.0	--	<25	10.2	86	1.0
JAN.												
02...	--	--	--	--	203	7.4	3.0	--	<25	12.1	90	--
16...	4	131	89	84	204	8.0	11.0	0	<25	13.4	121	1.3
29...	--	--	--	--	171	7.4	4.0	--	<25	11.7	89	1.8
FEB.												
12...	--	--	--	--	175	7.8	8.0	--	<25	12.3	103	1.8
26...	--	--	--	--	199	7.6	10.0	--	<25	11.3	100	1.0
MAR.												
19...	--	--	--	--	164	7.6	14.5	--	<25	9.5	93	.6
APR.												
03...	--	--	--	--	113	7.4	10.0	--	75	10.4	92	1.8
17...	18	113	63	54	139	7.3	18.0	15	<25	9.5	100	.9
30...	--	--	--	--	157	7.4	18.0	--	4	9.2	98	.8
MAY												
14...	--	--	--	--	150	7.6	18.0	--	5	10.0	106	2.1
29...	--	--	--	--	170	7.6	19.0	--	2	9.0	96	.7
JUNE												
18...	--	--	--	--	166	7.8	25.0	--	3	9.4	112	3.0
JULY												
16...	--	--	--	--	181	7.7	23.0	--	8	8.5	98	1.8
30...	--	--	--	--	198	7.8	25.0	--	12	8.0	95	1.6
AUG.												
13...	--	--	--	--	199	7.8	27.0	--	6	8.3	103	2.6
20...	--	--	--	--	202	7.9	28.0	--	5	8.9	113	2.1
SEP.												
04...	--	--	--	--	213	7.6	25.0	--	4	8.9	106	1.3
18...	5	135	96	88	--	7.7	--	0	3	--	102	1.1

07195850 Flint Creek north of Siloam Springs, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.												
03...	--	--	--	--	--	--	--	--	--	--	--	--
17...	2800	25	132	<3	<2	<50	--	165	<100	<.1	<50	24
30...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--
JAN.												
02...	--	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	<3	<2	<100	5	<10	21	<.1	<50	12
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
12...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
19...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
03...	9500	4000	--	--	--	--	--	--	--	--	--	--
17...	600	340	140	<3	<5	<10	--	24	15	<.4	19	33
30...	6	<6	--	--	--	--	--	--	--	--	--	--
MAY												
14...	110	60	--	--	--	--	--	--	--	--	--	--
29...	50	34	--	--	--	--	--	--	--	--	--	--
JUNE												
18...	120	9	--	--	--	--	--	--	--	--	--	--
JULY												
16...	225	16	--	--	--	--	--	--	--	--	--	--
30...	420	5	--	--	--	--	--	--	--	--	--	--
AUG.												
13...	200	60	--	--	--	--	--	--	--	--	--	--
20...	400	6	--	--	--	--	--	--	--	--	--	--
SEP.												
04...	6000	800	--	--	--	--	--	--	--	--	--	--
18...	40	5	15	3	<2	<4	--	<20	<4	--	<4	4

07195860 Sager Creek near Siloam Springs, Ark.

LOCATION.--Lat 36°1150", long 94°35'00", in SE¼NE¼ sec.24, T.20 N., R.25 E., Delaware County, Okla., at bridge on county road 0.8 mi (1.3 km) west of State line, 2.6 mi (4.2 km) northwest of Siloam Springs.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.												
03...	--	--	--	--	68	--	20	--	--	--	--	--
17...	180	60	40	<1.0	119	15	31	<.10	.28	245	9	254
30...	--	--	--	--	110	--	14	--	--	--	--	--
NOV.												
13...	--	--	--	--	62	--	6.0	--	--	--	--	--
27...	--	--	--	--	81	--	7.5	--	--	--	--	--
JAN.												
02...	--	--	--	--	91	--	9.5	--	--	--	--	--
16...	145	90	34	4.0	88	23	11	1.7	1.1	161	7	168
29...	--	--	--	--	71	--	10	--	--	--	--	--
FEB.												
12...	--	--	--	--	73	--	9.0	--	--	--	--	--
26...	--	--	--	--	86	--	10	--	--	--	--	--
MAR.												
19...	--	--	--	--	76	--	10	--	--	--	--	--
APR.												
03...	--	--	--	--	60	--	5.0	--	--	--	--	--
17...	100	12	20	1.0	68	7.0	9.0	3.0	.22	124	6	130
30...	--	--	--	--	73	--	7.5	--	--	--	--	--
MAY												
14...	--	--	--	--	76	--	8.0	--	--	--	--	--
29...	--	--	--	--	82	--	8.5	--	--	--	--	--
JUNE												
18...	--	--	--	--	88	--	13	--	--	--	--	--
JULY												
16...	--	--	--	--	82	--	12	--	--	--	--	--
30...	--	--	--	--	96	--	31	--	--	--	--	--
AUG.												
13...	--	--	--	--	105	--	21	--	--	--	--	--
20...	--	--	--	--	102	--	18	--	--	--	--	--
SEP.												
04...	--	--	--	--	106	--	16	--	--	--	--	--
18...	73	<20	40	2.0	95	10	16	2.6	.77	165	31	196

DATE	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.											
03...	--	--	356	7.7	20.0	--	15	8.4	92	2.9	--
17...	102	100	421	7.4	18.0	20	15	9.6	101	4.8	62000
30...	--	--	308	7.4	--	--	30	6.8	--	2.7	--
NOV.											
13...	--	--	120	7.0	12.0	--	59	8.7	81	4.7	--
27...	--	--	220	7.2	10.0	--	<25	7.9	70	4.2	--
JAN.											
02...	--	--	233	7.2	5.0	--	<25	10.2	80	1.1	--
16...	100	84	257	7.3	11.0	10	<25	10.4	94	3.3	--
29...	--	--	215	7.1	6.0	--	<25	10.5	84	2.4	--
FEB.											
12...	--	--	216	7.5	9.5	--	<25	9.6	85	2.6	--
26...	--	--	237	7.7	10.0	--	<25	11.0	98	1.5	--
MAR.											
19...	--	--	210	7.5	15.0	--	<25	7.7	76	1.8	--
APR.											
03...	--	--	97	7.3	11.0	--	110	10.6	96	6.9	17600
17...	76	70	187	7.2	18.0	20	<25	8.5	90	2.4	4500
30...	--	--	203	7.2	17.0	--	2	7.3	75	1.3	700
MAY											
14...	--	--	198	7.4	18.0	--	3	9.5	100	1.9	1050
29...	--	--	203	7.5	19.0	--	3	9.2	98	1.1	1350
JUNE											
18...	--	--	222	7.8	23.0	--	2	9.9	114	2.1	1950
JULY											
16...	--	--	213	7.8	23.0	--	6	8.8	102	2.0	3050
30...	--	--	316	7.9	26.0	--	3	10.2	124	3.0	1650
AUG.											
13...	--	--	284	8.0	26.0	--	1	12.6	154	2.8	2120
20...	--	--	278	7.7	25.0	--	2	10.3	123	1.8	1250
SEP.											
04...	--	--	299	8.1	26.0	--	2	11.5	140	1.5	500
18...	110	100	267	7.7	18.5	0	5	10.0	106	1.8	750

07195860 Sager Creek near Siloam Springs, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
03...	--	--	--	--	--	--	--	--	--	--	--
17...	553	63	10	<2	<50	--	11	<100	<.1	<50	10
30...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
13...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	<3	<2	<100	6	<10	25	<.4	<50	13
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	--	--	--	--	--	--	--	--	--	--	--
APR.											
03...	11000	--	--	--	--	--	--	--	--	--	--
17...	320	100	<3	<5	<10	--	5	6	<.4	8	11
30...	100	--	--	--	--	--	--	--	--	--	--
MAY											
14...	113	--	--	--	--	--	--	--	--	--	--
29...	85	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	145	--	--	--	--	--	--	--	--	--	--
JULY											
16...	460	--	--	--	--	--	--	--	--	--	--
30...	40	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	2175	--	--	--	--	--	--	--	--	--	--
20...	10	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	33	--	--	--	--	--	--	--	--	--	--
18...	60	100	<3	<2	<4	--	<20	<4	--	<4	5

07196900 Baron Fork at Dutch Mills, Ark.

LOCATION.--Lat 35°52'48", long 94°29'11", on line between secs.21 and 22, T.14 N., R.33 W., Washington County, at gaging station, near right bank on downstream side of bridge on State Highway 59 at Dutch Mills, 2.2 mi (3.5 km) downstream from Fly Creek, and 2.9 mi (4.7 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--46.0 mi² (119 km²).

PERIOD OF RECORD.--Chemical analyses: October 1960 to September 1961, October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
03...	1.1	--	--	--	--	56	--	7.5	--	--	--	--
17...	.70	120	90	30	4.0	116	9.0	7.5	<.10	.01	157	7
30...	.80	--	--	--	--	123	--	6.5	--	--	--	--
NOV.												
13...	240	--	--	--	--	55	--	5.5	--	--	--	--
27...	40	--	--	--	--	96	--	7.0	--	--	--	--
JAN.												
02...	22	--	--	--	--	101	--	8.0	--	--	--	--
16...	30	225	70	39	3.0	95	20	8.0	.96	.65	150	12
29...	59	--	--	--	--	84	--	6.0	--	--	--	--
FEB.												
12...	85	--	--	--	--	85	--	6.0	--	--	--	--
26...	24	--	--	--	--	107	--	7.5	--	--	--	--
MAR.												
19...	53	--	--	--	--	98	--	6.0	--	--	--	--
APR.												
03...	--	--	--	--	--	51	--	5.0	--	--	--	--
06...	578	--	--	--	--	--	--	--	--	--	--	--
17...	169	850	65	32	2.0	77	8.0	5.5	1.9	.08	129	32
30...	--	--	--	--	--	96	--	5.0	--	--	--	--
MAY												
01...	69	--	--	--	--	--	--	--	--	--	--	--
14...	48	--	--	--	--	106	--	5.0	--	--	--	--
29...	63	--	--	--	--	102	--	5.5	--	--	--	--
JUNE												
18...	36	--	--	--	--	116	--	6.0	--	--	--	--
JULY												
16...	9.9	--	--	--	--	133	--	6.5	--	--	--	--
30...	4.6	--	--	--	--	129	--	7.5	--	--	--	--
AUG.												
13...	3.2	--	--	--	--	126	--	7.5	--	--	--	--
20...	3.5	--	--	--	--	139	--	9.0	--	--	--	--
SEP.												
04...	--	--	--	--	--	127	--	7.5	--	--	--	--
05...	2.1	--	--	--	--	--	--	--	--	--	--	--
18...	1.6	84	29	51	2.9	138	10	7.5	.26	.06	164	11

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
03...	--	--	--	295	8.1	21.0	--	15	11.6	127	3.0	--
17...	164	91	124	287	7.5	19.0	10	25	9.3	99	2.2	4300
30...	--	--	--	295	7.7	13.0	--	30	8.5	80	.3	--
NOV.												
13...	--	--	--	166	7.5	12.5	--	40	9.3	87	1.3	--
27...	--	--	--	224	7.7	6.0	--	<25	11.0	88	2.0	--
JAN.												
02...	--	--	--	246	7.6	3.0	--	<25	11.0	81	.6	--
16...	162	110	98	242	8.2	11.0	5	<25	15.1	136	2.5	--
29...	--	--	--	227	7.9	5.0	--	<25	13.3	104	2.4	--
FEB.												
12...	--	--	--	225	7.8	7.5	--	<25	11.0	90	1.3	--
26...	--	--	--	264	7.7	10.0	--	<25	9.7	86	.9	--
MAR.												
19...	--	--	--	232	7.9	15.0	--	<25	11.5	113	1.6	--
APR.												
03...	--	--	--	128	7.5	9.0	--	110	10.5	91	2.7	14000
06...	--	--	--	--	--	--	--	--	--	--	--	--
17...	161	88	80	189	7.8	17.0	55	45	10.1	105	1.1	800
30...	--	--	--	223	7.6	18.0	--	3	9.0	95	.9	<20
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	223	8.2	20.0	--	3	12.5	138	2.4	20
29...	--	--	--	220	7.8	22.0	--	6	10.1	115	1.9	73
JUNE												
18...	--	--	--	244	8.2	27.5	--	2	11.6	145	2.9	400
JULY												
16...	--	--	--	256	8.1	25.5	--	2	10.1	122	2.5	46
30...	--	--	--	273	8.0	26.0	--	5	8.4	103	2.3	900
AUG.												
13...	--	--	--	248	7.9	29.0	--	12	8.0	103	2.1	100
20...	--	--	--	273	7.7	27.0	--	5	6.7	83	1.8	20
SEP.												
04...	--	--	--	263	7.9	28.0	--	5	8.0	102	1.4	113
05...	--	--	--	--	--	--	--	--	--	--	--	--
18...	175	140	128	279	8.0	21.0	0	4	10.2	113	1.1	170

07196900 Baron Fork at Dutch Mills, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
03...	--	--	--	--	--	--	--	--	--	--	--
17...	32	24	<3	2	<50	--	91	<100	<.3	<50	22
30...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
13...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	3	2	<100	7	<10	20	<.6	<50	20
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	--	--	--	--	--	--	--	--	--	--	--
APR.											
03...	6600	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
17...	460	170	<3	<5	<10	--	65	15	<.4	23	30
30...	<5	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
14...	20	--	--	--	--	--	--	--	--	--	--
29...	62	--	--	--	--	--	--	--	--	--	--
JUNE											
18...	6	--	--	--	--	--	--	--	--	--	--
JULY											
16...	6	--	--	--	--	--	--	--	--	--	--
30...	44	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	<6	--	--	--	--	--	--	--	--	--	--
20...	6	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	36	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
18...	6	20	<3	<2	<6	--	65	<6	--	10	20

07247012 Poteau River south of Bates, Ark.

LOCATION.--Lat 34°53'44", long 94°23'35", in SW¼NW¼ sec.27, T.3 N., R.32 W., Scott County, at bridge on county road, 0.9 mi (1.4 km) south of Bates.

DRAINAGE AREA.--251 mi² (650 km²), station 07247010 near Bates.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
09...	6.0	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	12	--	11	--	--	--	--
NOV.												
06...	3530	--	--	--	--	--	--	3.0	--	--	--	--
07...	--	--	--	--	--	6	--	--	--	--	--	--
15...	677	--	--	--	--	10	--	4.0	--	--	--	--
DEC.												
05...	59	--	--	3.0	3.0	12	13	6.5	<.10	.03	60	7
10...	294	--	--	--	--	12	--	5.0	--	--	--	--
JAN.												
22...	1950	--	--	--	--	7	--	4.5	--	--	--	--
FEB.												
05...	320	--	--	--	--	11	--	4.5	--	--	--	--
15...	203	--	--	--	--	12	--	5.0	--	--	--	--
MAR.												
12...	--	370	65	2.0	3.0	10	6.0	4.0	.40	.04	50	24
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	1050	--	--	--	--	10	--	4.0	--	--	--	--
20...	--	--	--	--	--							
APR.												
09...	404	--	--	--	--	14	--	5.0	--	--	--	--
23...	2190	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	13	--	3.5	--	--	--	--
MAY												
07...	205	--	--	--	--	14	--	3.5	--	--	--	--
16...	100	--	--	--	--	14	--	3.0	--	--	--	--
JUNE												
12...	231	600	30	3.0	1.0	13	7.0	2.5	.14	.09	90	24
25...	156	--	--	--	--	16	--	5.0	--	--	--	--
JULY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
09...	65	--	--	--	--	22	--	5.5	--	--	--	--
23...	42	--	--	--	--	25	--	5.5	--	--	--	--
AUG.												
07...	--	490	124	4.0	3.0	26	7.0	6.5	.22	.04	56	8
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	1.5	--	--	--	--	33	--	5.5	--	--	--	--
SEP.												
10...	230	--	--	--	--	13	--	4.5	--	--	--	--
24...	8.0	--	--	--	--	22	--	4.5	--	--	--	--

07247012 Poteau River south of Bates, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.											
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	110	6.7	21.0	--	25	7.1	79	2.6
NOV.											
06...	--	--	--	30	--	15.0	--	--	9.0	--	--
07...	--	--	--	--	6.6	--	--	75	--	88	3.6
15...	--	--	--	69	7.0	10.0	--	30	9.3	88	.8
DEC.											
05...	67	20	8.0	65	6.6	9.0	50	<25	10.2	89	1.6
18...	--	--	--	51	6.2	4.0	--	<25	12.9	99	1.9
JAN.											
22...	--	--	--	46	6.2	9.0	--	40	10.6	91	2.0
FEB.											
05...	--	--	--	67	6.7	10.0	--	<25	11.1	99	1.1
15...	--	--	--	56	7.0	6.0	--	<25	11.6	93	1.0
MAR.											
12...	74	17	6.0	39	6.7	17.0	80	30	9.5	98	1.2
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	37	6.6	11.0	--	35	10.9	99	1.6
APR.											
09...	--	--	--	56	6.6	10.0	--	<25	10.0	89	1.1
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	38	6.7	19.0	--	140	8.0	85	3.0
MAY											
07...	--	--	--	44	6.7	19.0	--	60	8.6	92	2.0
16...	--	--	--	49	6.6	18.0	--	16	8.5	90	1.5
JUNE											
12...	74	12	8.0	63	6.6	24.0	20	20	7.0	83	1.3
25...	--	--	--	72	6.6	27.0	--	60	6.2	78	--
JULY											
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	66	7.2	29.0	--	22	8.0	103	3.4
23...	--	--	--	68	7.0	29.0	--	15	5.5	71	1.7
AUG.											
07...	64	22	10	63	7.3	32.0	15	13	7.1	96	2.1
24...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	70	7.2	27.0	--	12	5.1	63	1.9
SEP.											
10...	--	--	--	65	6.7	27.0	--	170	5.6	69	1.6
24...	--	--	--	62	7.2	25.0	--	24	6.6	76	1.0

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
05...	130	10	20	<3	--	--	--	--	<.1	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	--	--	--	<3	5	<10	<10	230	<.5	10	0
13...	350	130	373	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR.											
09...	703	235	--	--	--	--	--	--	--	--	--
23...	10500	4000	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	20000	4600	--	--	--	--	--	--	--	--	--
16...	5400	40	--	--	--	--	--	--	--	--	--
JUNE											
12...	--	--	40	<3	3	<10	<15	10	<.5	<2	6
25...	6800	146	--	--	--	--	--	--	--	--	--
JULY											
07...	1400	32	84	--	--	--	--	--	--	--	--
09...	400	23	--	--	--	--	--	--	--	--	--
23...	250	13	--	--	--	--	--	--	--	--	--
AUG.											
07...	--	--	--	<3	3	<15	<10	37	<.5	<6	13
24...	1200	33	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	1400	75	--	--	--	--	--	--	--	--	--
24...	725	86	--	--	--	--	--	--	--	--	--

07249400 James Fork near Hackett, Ark.

LOCATION.--Lat 35°09'45", long 94°24'25", in NW¼NW¼ sec.34, T.6 N., R.32 W., Sebastian County, at gaging station near left bank on downstream side of bridge on State Highway 45, 1.7 mi (2.7 km) south of Hackett, 2 mi (3.2 km) downstream from Elder Branch, 2 mi (3.2 km) upstream from small tributary, and 3.6 mi (5.8 km) upstream from Arkansas-Oklahoma State line.

DRAINAGE AREA.--147 mi² (381 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971, October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
12...	1.2	--	--	--	--	29	--	5.0	--	--	--	--
NOV.												
06...	42	--	--	--	--	--	--	3.0	--	--	--	--
07...	--	--	--	--	--	18	--	--	--	--	--	--
15...	267	--	--	--	--	19	--	4.5	--	--	--	--
DEC.												
05...	52	--	--	10	10	20	71	6.0	.10	.04	135	35
18...	116	--	--	--	--	19	--	7.5	--	--	--	--
JAN.												
22...	836	--	--	--	--	13	--	5.5	--	--	--	--
FEB.												
05...	177	--	--	--	--	18	--	5.5	--	--	--	--
15...	99	--	--	--	--	29	--	6.0	--	--	--	--
MAR.												
12...	--	500	120	6.0	5.0	17	28	4.5	.02	.08	97	51
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	786	--	--	--	--	--	--	--	--	--	--	--
APR.												
09...	617	--	--	--	--	21	--	6.0	--	--	--	--
23...	14300	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	12	--	3.5	--	--	--	--
MAY												
07...	1130	--	--	--	--	28	--	4.5	--	--	--	--
16...	99	--	--	--	--	33	--	5.0	--	--	--	--
JUNE												
12...	117	400	60	11	6.0	30	43	3.5	.20	.25	129	20
25...	--	--	--	--	--	27	--	5.0	--	--	--	--
JULY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	33	--	5.5	--	--	--	--
23...	--	--	--	--	--	71	--	7.5	--	--	--	--
AUG.												
07...	--	70	123	17	13	77	60	7.5	<.10	.03	220	13
23...	11	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	7.0	--	--	--	--	66	--	8.0	--	--	--	--
SEP.												
10...	7.0	--	--	--	--	69	--	7.0	--	--	--	--
24...	9.5	--	--	--	--	105	--	9.0	--	--	--	--

07249400 James Fork near Hackett, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERA-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.											
10...	--	--	--	165	7.0	20.0	--	25	7.0	83	2.0
NOV.											
06...	--	--	--	50	--	12.0	--	--	8.5	--	--
07...	--	--	--	--	6.6	--	--	270	--	76	3.1
15...	--	--	--	136	7.0	10.0	--	40	9.3	87	.0
DEC.											
05...	170	66	20	102	6.5	10.0	20	<25	10.6	92	1.2
18...	--	--	--	130	6.5	6.0	--	<25	12.0	97	1.4
JAN.											
22...	--	--	--	119	6.5	9.0	--	70	10.0	88	1.5
FEB.											
05...	--	--	--	125	6.9	10.0	--	25	10.5	96	.0
15...	--	--	--	142	7.0	7.0	--	<25	11.1	91	.0
MAR.											
12...	168	36	16	116	6.7	17.0	80	60	9.0	93	.7
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
APR.											
09...	--	--	--	129	6.9	9.0	--	25	10.2	89	1.6
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	36	6.5	19.0	--	300	8.0	85	4.1
MAY											
07...	--	--	--	85	6.8	21.0	--	90	9.0	100	3.6
16...	--	--	--	190	7.0	16.0	--	16	8.8	89	1.1
JUNE											
12...	155	52	20	150	7.2	25.0	10	22	7.6	91	.6
25...	--	--	--	119	7.2	26.0	--	45	7.3	90	1.1
JULY											
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	146	7.2	28.0	--	31	6.6	86	2.1
23...	--	--	--	275	7.5	29.0	--	15	6.7	86	1.0
AUG.											
07...	241	96	42	325	7.0	27.0	5	9	8.6	105	2.0
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	326	7.5	27.0	--	10	5.5	68	1.2
SEP.											
10...	--	--	--	299	7.6	29.0	--	8	8.1	106	1.9
24...	--	--	--	309	7.9	25.0	--	8	6.1	73	.6

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
05...	150	35	56	<3	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	<.1	--	--
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	--	--	--	<3	6	<10	<10	210	<.7	11	61
13...	894	360	<10	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
APR.											
09...	1100	800	--	--	--	--	--	--	--	--	--
23...	20000	6400	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	7400	7400	--	--	--	--	--	--	--	--	--
16...	5600	70	--	--	--	--	--	--	--	--	--
JUNE											
12...	--	--	90	<3	<2	<16	<15	120	<.6	<2	11
25...	2200	85	--	--	--	--	--	--	--	--	--
JULY											
07...	1250	50	125	--	--	--	--	--	--	--	--
09...	1250	60	--	--	--	--	--	--	--	--	--
23...	950	21	--	--	--	--	--	--	--	--	--
AUG.											
07...	--	--	--	<3	6	<15	19	13	<.8	13	0
23...	--	--	--	--	--	--	--	--	--	--	--
24...	1000	73	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	1700	130	--	--	--	--	--	--	--	--	--
24...	<50	<6	--	--	--	--	--	--	--	--	--

07249440 Poteau River near Fort Smith, Ark.

LOCATION.--Lat 35°20'43", long 94°27'09", in SE¼SW¼ sec.9, T.10 N., R.27 E., LeFlore County, Okla., at bridge on State Highway 9, 1.2 mi (1.9 km) west of State line, and 2.0 mi (3.2 km) southwest of Fort Smith.

DRAINAGE AREA.--254 mi² (658 km²), at State line.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.											
10...	--	--	--	--	22	--	13	--	--	--	--
NOV.											
06...	--	--	--	--	--	--	2.5	--	--	--	--
07...	--	--	--	--	5	--	--	--	--	--	--
15...	--	--	--	--	13	--	4.0	--	--	--	--
DEC.											
05...	--	--	4.0	3.0	--	8.4	--	<.10	.06	71	19
06...	--	--	--	--	12	--	5.5	--	--	--	--
18...	--	--	--	--	13	--	5.0	--	--	--	--
JAN.											
22...	--	--	--	--	13	--	5.5	--	--	--	--
FEB.											
05...	--	--	--	--	13	--	5.0	--	--	--	--
15...	--	--	--	--	12	--	5.0	--	--	--	--
MAR.											
12...	800	80	5.0	4.0	16	6.0	4.5	.51	.09	96	79
13...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	13	--	4.5	--	--	--	--
APR.											
09...	--	--	--	--	17	--	5.5	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	19	--	5.0	--	--	--	--
MAY											
07...	--	--	--	--	16	--	3.5	--	--	--	--
16...	--	--	--	--	13	--	2.5	--	--	--	--
JUNE											
12...	470	50	5.0	1.0	16	7.0	2.5	.20	.10	51	50
25...	--	--	--	--	10	--	3.5	--	--	--	--
JULY											
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	31	--	7.5	--	--	--	--
23...	--	--	--	--	35	--	11	--	--	--	--
AUG.											
07...	1000	320	8.0	5.0	40	16	6.0	.43	.10	88	68
24...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	40	--	7.0	--	--	--	--
SEP.											
10...	--	--	--	--	40	--	20	--	--	--	--
24...	--	--	--	--	31	--	6.0	--	--	--	--

07249440 Poteau River near Fort Smith, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)
OCT.											
10...	--	--	--	172	7.2	22.0	--	104	4.5	52	1.2
NOV.											
06...	--	--	--	40	--	15.0	--	--	9.0	--	--
07...	--	--	--	--	6.2	--	--	230	--	89	4.7
15...	--	--	--	68	6.7	10.0	--	120	7.8	73	1.8
DEC.											
05...	90	22	10	--	--	--	90	--	--	--	--
06...	--	--	--	62	6.4	8.0	--	25	10.4	88	1.4
18...	--	--	--	66	6.3	5.0	--	25	13.1	102	2.7
JAN.											
22...	--	--	--	69	6.7	9.0	--	210	9.9	85	2.5
FEB.											
05...	--	--	--	67	6.6	10.0	--	45	11.0	97	1.6
15...	--	--	--	58	6.9	6.0	--	55	12.0	96	2.2
MAR.											
12...	173	29	12	61	6.6	18.0	180	130	6.9	73	1.6
13...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	48	6.6	11.0	--	130	8.3	76	2.3
APR.											
09...	--	--	--	68	6.8	11.0	--	40	9.1	83	1.5
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	58	6.7	19.0	--	140	7.7	82	2.2
MAY											
07...	--	--	--	40	6.7	19.0	--	50	8.0	85	1.6
16...	--	--	--	46	6.7	17.0	--	32	9.0	93	1.9
JUNE											
12...	101	17	12	48	6.7	25.0	30	28	5.5	65	.1
25...	--	--	--	50	7.0	27.0	--	35	6.1	76	1.2
JULY											
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	89	7.2	30.0	--	40	8.3	109	4.0
23...	--	--	--	113	7.2	31.0	--	46	8.2	111	4.6
AUG.											
07...	136	41	20	97	7.2	28.0	20	50	5.1	66	1.7
24...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	129	7.2	30.0	--	60	3.0	39	1.5
SEP.											
10...	--	--	--	114	7.0	26.0	--	110	4.9	60	2.7
24...	--	--	--	85	7.3	28.0	--	75	4.5	58	.1

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
05...	540	53	92	<3	--	--	--	--	<.1	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	--	--	--	13	4	<10	18	110	<.4	7	20
13...	1850	980	315	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR.											
09...	--	--	--	--	--	--	--	--	--	--	--
23...	19000	4200	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	5200	1800	--	--	--	--	--	--	--	--	--
16...	463	119	--	--	--	--	--	--	--	--	--
JUNE											
12...	--	--	100	23	<2	<14	<15	120	<.4	<2	7
25...	2600	246	--	--	--	--	--	--	--	--	--
JULY											
07...	145	<6	35	--	--	--	--	--	--	--	--
09...	350	45	--	--	--	--	--	--	--	--	--
23...	62	<6	--	--	--	--	--	--	--	--	--
AUG.											
07...	--	--	--	3	4	<15	<10	50	<.8	9	8
24...	1500	71	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	860	--	--	--	--	--	--	--	--	--	--
24...	120	<10	--	--	--	--	--	--	--	--	--

07249703 Lee Creek near Natural Dam, Ark.

LOCATION.--Lat 35°38'03", long 94°24'18", in SE¼NW¼ sec.16, T.11 N., R.32 W., Crawford County, at left bank of stream, 1.0 mi (1.6 km) southwest of Natural Dam.

DRAINAGE AREA.--168 mi² (435 km²), at Natural Dam.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
03...	.00	--	--	--	--	15	--	6.5	--	--	--	--
17...	.00	60	40	12	2.0	33	2.0	6.5	<.10	--	51	14
30...	17	--	--	--	--	37	--	19	--	--	--	--
NOV.												
13...	--	--	--	--	--	22	--	3.0	--	--	--	--
27...	322	--	--	--	--	27	--	4.5	--	--	--	--
JAN.												
02...	118	--	--	--	--	29	--	5.0	--	--	--	--
16...	184	90	40	9.0	3.0	--	9.3	4.0	<.10	<.01	54	4
29...	296	--	--	--	--	24	--	3.5	--	--	--	--
FEB.												
12...	160	--	--	--	--	23	--	4.0	--	--	--	--
26...	24	--	--	--	--	28	--	5.5	--	--	--	--
MAR.												
19...	8.0	--	--	--	--	24	--	4.0	--	--	--	--
APR.												
03...	--	--	--	--	--	25	--	3.0	--	--	--	--
17...	--	330	30	7.0	1.0	22	3.0	4.5	.19	.02	56	8
30...	--	--	--	--	--	27	--	3.0	--	--	--	--
MAY												
01...	234	--	--	--	--	--	--	--	--	--	--	--
14...	118	--	--	--	--	30	--	3.5	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	33	--	3.5	--	--	--	--
JULY												
16...	.00	--	--	--	--	40	--	5.5	--	--	--	--
30...	--	--	--	--	--	39	--	6.5	--	--	--	--
AUG.												
13...	--	--	--	--	--	42	--	6.5	--	--	--	--
20...	--	--	--	--	--	44	--	8.0	--	--	--	--
SEP.												
04...	--	--	--	--	--	45	--	7.0	--	--	--	--
05...	235	--	--	--	--	--	--	--	--	--	--	--
13...	20	--	--	--	--	--	--	--	--	--	--	--
18...	.00	91	20	14	2.0	45	3.0	7.0	1.0	<.01	67	7

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
03...	--	--	--	297	7.9	25.0	--	15	11.6	139	2.3	--
17...	64	38	32	101	6.9	22.0	5	20	10.6	121	1.4	13000
30...	--	--	--	154	7.2	14.0	--	25	8.8	85	.4	--
NOV.												
13...	--	--	--	57	6.9	13.0	--	66	9.6	91	1.6	--
27...	--	--	--	75	7.2	5.0	--	<25	11.0	86	1.3	--
JAN.												
02...	--	--	--	77	6.9	2.0	--	<25	12.1	88	.8	--
16...	58	35	20	76	--	8.0	15	--	13.1	--	--	--
29...	--	--	--	65	7.2	3.0	--	<25	13.0	96	1.6	--
FEB.												
12...	--	--	--	59	7.2	6.0	--	<25	12.1	97	1.1	--
26...	--	--	--	79	6.9	9.0	--	<25	11.3	97	1.5	--
MAR.												
19...	--	--	--	60	7.3	15.0	--	<25	10.4	103	.6	--
APR.												
03...	--	--	--	58	7.2	11.0	--	<25	10.9	98	.6	350
17...	64	22	18	55	7.1	15.0	55	<25	10.3	101	.7	--
30...	--	--	--	72	7.1	16.0	--	13	9.6	96	1.2	1250
MAY												
01...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	64	7.3	20.5	--	12	10.5	115	1.8	88
22...	--	--	--	--	--	--	--	--	--	--	--	918
29...	--	--	--	73	7.4	20.0	--	17	9.9	108	1.3	--
JULY												
16...	--	--	--	78	7.6	29.0	--	3	9.9	128	2.4	56
30...	--	--	--	94	7.5	28.0	--	3	7.7	98	1.3	500
AUG.												
13...	--	--	--	96	7.6	36.0	--	4	11.4	164	5.8	6
20...	--	--	--	100	7.4	26.0	--	1	8.3	102	1.3	<6
SEP.												
04...	--	--	--	95	7.5	31.0	--	1	12.6	168	2.4	80
05...	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--
18...	74	43	36	102	7.5	25.0	0	1	11.2	134	1.8	30

07249703 Lee Creek near Natural Dam, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
03...	--	--	--	--	--	--	--	--	--	--	--
17...	80	12	<3	<2	<50	--	2	--	<.1	<50	7
30...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
13...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	<3	2	<100	<5	<10	21	<.1	<50	3
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
19...	--	--	--	--	--	--	--	--	--	--	--
APR.											
03...	77	24	--	--	--	--	--	--	--	--	--
17...	--	--	<3	<5	--	--	<5	10	<.4	10	3
30...	76	--	--	--	--	--	--	--	--	--	--
MAY											
01...	--	--	--	--	--	--	--	--	--	--	--
14...	12	--	--	--	--	--	--	--	--	--	--
22...	172	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JULY											
16...	<4	--	--	--	--	--	--	--	--	--	--
30...	80	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	8	--	--	--	--	--	--	--	--	--	--
20...	<4	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	8	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
18...	<5	8	<3	<2	<4	--	51	<4	--	<4	<4

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.
(National tritium and pesticide station)

LOCATION.--Lat 35°20'56", long 94°17'54", in sec.28, T.8 N., R.31 W., Sebastian County, at gaging station in Dam No. 13 control house on right bank, and at mile 308.9 (497.0 km).

DRAINAGE AREA.--150,547 mi² (389,917 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.
Water temperatures: October 1969 to September 1972.
Sediment discharge: October 1970 to September 1972.

EXTREMES.--Water year 1972:
Sediment concentrations: Maximum daily, 800 mg/l Dec. 10; minimum daily, 10 mg/l on many days during the year.
Sediment discharge: Maximum daily, 347,245 tons (315,021 tonnes) Dec. 10; minimum daily, 5 tons (5 tonnes) Sept. 4.
Period of record:
Sediment concentrations (1970-72): Maximum daily, 950 mg/l Oct. 27, 1970; minimum daily, 10 mg/l on many days.
Sediment discharge (1970-72): Maximum daily, 347,245 tons (315,021 tonnes) Dec. 10, 1971; minimum daily, 1 ton (1 tonne) Dec. 7, 1970.

REMARKS.--Sediment records furnished by Corps of Engineers, Little Rock, Ark. Flow regulated by many reservoirs upstream.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)
OCT.									
03...	3220	--	--	134	0	110	55	190	.04
30...	17200	--	--	134	0	110	53	100	.32
DEC.									
06...	47900	--	--	96	0	79	31	56	.04
JAN.									
10...	56700	--	--	88	0	72	38	110	.56
FEB.									
14...	79900	--	--	88	0	72	30	60	.68
MAR.									
07...	119000	--	--	84	0	69	32	110	.60
APR.									
18...	170000	--	--	76	0	62	33	77	.93
MAY									
23...	140000	--	--	100	0	82	45	81	1.0
JULY									
11...	21500	--	--	100	0	82	39	67	.43
AUG.									
15...	1090	47	11	--	--	--	55	120	.14
SEP.									
12...	1910	49	12	--	--	--	61	150	.13

DATE	TOTAL NITRITE (N) (MG/L)	TOTAL NITRITE PLUS NITRATE (N) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)
OCT.									
03...	.01	--	.00	--	.46	.10	160	49	968
30...	.02	--	.05	--	.18	.15	160	48	935
DEC.									
06...	.04	--	.09	.12	.36	.12	100	26	392
JAN.									
10...	.03	--	.01	.01	.09	.19	110	40	620
FEB.									
14...	.02	--	.16	.21	.37	.23	99	27	451
MAR.									
07...	.02	--	.04	.05	.42	.19	110	39	620
APR.									
18...	.02	--	.03	.04	.20	1.3	92	30	440
MAY									
23...	.00	--	.03	.04	.19	.14	130	47	556
JULY									
11...	.00	--	.02	.03	.05	.10	120	34	405
AUG.									
15...	.02	.16	--	--	--	.05	160	--	720
SEP.									
12...	.00	.13	--	--	--	.08	170	--	789

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	PH (UNITS)	COLOR (PLATINUM-COBALT UNITS)	CHEMICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.									
03...	8.3	25	10	2.0	1.1	10000	E300	E12	--
30...	8.1	20	15	4.0	1.7	62000	1700	510	14
DEC.									
06...	7.9	45	44	1.7	1.9	--	--	--	--
JAN.									
10...	7.8	120	13	1.9	2.2	9500	E1200	390	16
FEB.									
14...	7.7	50	13	3.2	2.8	6500	E330	340	--
MAR.									
07...	7.7	90	31	1.0	2.7	10000	--	240	--
APR.									
10...	7.5	35	20	3.5	3.8	16000	E1400	E1100	--
MAY									
23...	7.8	45	16	2.0	2.5	76000	E440	220	--
JULY									
11...	7.6	35	26	1.5	4.0	36000	3200	580	--
AUG.									
15...	8.0	20	13	2.3	--	37000	3800	120	--
SEP.									
12...	--	5	9	1.9	--	E140000	E140000	E1700	--

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)	ALKALINITY AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
03...	3220	134	0	110	970	8.3	21.5	8.9	100	1.1
30...	17000	134	0	110	920	8.2	15.0	10.2	101	1.3
DEC.										
06...	47900	84	0	69	360	7.6	5.5	11.9	94	3.4
JAN.										
10...	56700	88	0	72	670	7.3	4.5	14.2	109	7.1
FEB.										
14...	79900	90	0	74	450	7.6	7.0	8.3	68	3.6
MAR.										
07...	119000	84	0	69	620	7.2	10.0	10.0	88	8.5
APR.										
10...	170000	68	0	56	430	7.0	14.0	8.9	86	11
MAY										
23...	148000	100	0	82	550	7.8	20.0	7.4	79	2.5
JULY										
11...	21500	100	0	82	420	7.5	27.0	5.8	72	5.1
AUG.										
15...	1090	126	0	103	700	8.1	28.0	7.0	89	1.6
SEP.										
12...	1910	130	0	110	730	7.5	27.0	7.2	90	6.6

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	670	572	617	411	347	383	---	---	---	---	---	---
2	600	516	560	404	326	380	---	---	---	---	---	---
3	606	526	560	---	---	---	644	590	626	---	---	---
4	612	536	565	427	323	375	714	582	657	---	---	---
5	634	522	581	410	356	392	687	611	657	---	---	---
6	634	562	600	---	---	---	---	---	---	---	---	---
7	674	588	624	---	---	---	---	---	---	402	320	373
8	676	600	636	---	---	---	---	---	---	388	342	372
9	748	590	661	---	---	---	---	---	---	347	333	340
10	750	594	649	---	---	---	---	---	---	379	273	351
11	750	602	664	---	---	---	---	---	---	372	332	354
12	730	636	674	---	---	---	---	---	---	393	341	362
13	734	628	676	---	---	---	---	---	---	369	317	350
14	708	602	650	---	---	---	---	---	---	342	294	322
15	664	572	622	---	---	---	---	---	---	350	324	337
16	630	578	603	---	---	---	---	---	---	362	326	341
17	640	570	604	---	---	---	---	---	---	368	324	347
18	604	540	585	---	---	---	---	---	---	398	332	369
19	584	526	568	---	---	---	---	---	---	410	332	381
20	---	---	---	---	---	---	---	---	---	446	380	421
21	---	---	---	---	---	---	---	---	---	456	374	430
22	574	510	539	---	---	---	---	---	---	549	463	510
23	---	---	---	---	---	---	---	---	---	553	515	532
24	---	---	---	---	---	---	---	---	---	614	526	577
25	---	---	---	---	---	---	---	---	---	675	625	663
26	---	---	---	---	---	---	---	---	---	704	674	691
27	---	---	---	---	---	---	---	---	---	726	678	706
28	---	---	---	---	---	---	---	---	---	735	727	732
29	409	315	356	---	---	---	---	---	---	740	720	733
30	412	302	358	---	---	---	---	---	---	723	715	720
31	422	312	369	---	---	---	---	---	---	717	675	703
MONTH	---	---	---	---	---	---	---	---	---	740	273	481

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	702	664	695	762	708	725	882	678	735	---	---	---
2	689	659	680	770	760	766	763	661	714	677	351	536
3	679	645	665	780	722	765	822	670	723	820	670	768
4	680	640	663	790	760	771	892	624	704	---	---	---
5	694	656	680	792	768	783	691	631	659	---	---	---
6	703	671	696	803	787	793	680	662	675	832	786	811
7	697	609	638	805	781	790	---	---	---	808	702	769
8	704	628	671	823	793	809	---	---	---	765	593	723
9	689	615	670	818	790	799	---	---	---	771	643	704
10	689	623	651	806	794	800	---	---	---	766	666	719
11	668	620	648	808	790	801	---	---	---	736	642	707
12	658	630	652	806	796	800	---	---	---	702	670	683
13	658	616	639	801	783	792	836	790	814	676	646	662
14	630	546	603	821	767	789	849	825	836	655	621	635
15	604	532	579	851	819	837	840	830	836	633	605	624
16	606	524	577	852	826	843	846	836	841	639	597	619
17	604	596	601	808	752	792	847	789	837	603	567	588
18	616	592	603	798	754	776	830	786	806	596	536	563
19	612	582	595	774	758	765	853	777	823	546	526	536
20	614	584	597	809	775	788	856	798	838	528	504	516
21	584	482	555	825	687	751	862	788	822	515	505	509
22	620	500	566	781	709	771	857	765	820	508	498	503
23	---	---	---	804	764	787	---	---	---	521	477	504
24	---	---	---	800	770	782	747	458	622	536	514	525
25	724	676	703	784	766	779	698	542	654	551	525	539
26	744	692	723	799	787	791	697	503	642	566	530	548
27	748	726	737	807	751	780	694	502	629	567	529	552
28	758	694	731	776	696	733	---	---	---	570	524	562
29	732	688	704	795	703	762	777	589	729	573	557	569
30	---	---	---	797	743	768	782	746	769	606	548	568
31	---	---	---	808	716	754	---	---	---	573	527	555
MONTH	758	482	649	852	687	782	---	---	---	832	351	611

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	560	518	544	702	594	674	---	---	---	---	---	---
2	562	524	545	709	637	684	---	---	---	---	---	---
3	573	513	535	709	635	685	---	---	---	---	---	---
4	563	521	542	702	632	683	---	---	---	---	---	---
5	559	507	532	711	661	683	---	---	---	---	---	---
6	581	511	534	670	608	643	---	---	---	---	---	---
7	552	510	530	827	677	779	---	---	---	---	---	---
8	554	522	545	826	818	822	---	---	---	---	---	---
9	558	538	549	830	816	825	---	---	---	---	---	---
10	---	---	---	835	815	830	---	---	---	---	---	---
11	---	---	---	826	780	812	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	690	668	680	---	---	---	---	---	---	---	---	---
30	703	659	684	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1000	900	990	425	385	390	605	545	565
2	---	---	---	870	470	615	395	385	390	600	590	595
3	980	970	975	480	410	435	390	380	385	600	560	595
4	970	950	960	445	405	430	395	390	390	585	560	580
5	950	940	950	405	375	385	420	400	415	605	565	575
6	950	950	950	370	330	350	435	420	435	660	610	640
7	950	950	950	335	285	305	440	440	440	660	560	575
8	950	945	950	285	245	255	440	440	440	675	645	665
9	945	940	940	295	255	270	450	440	445	655	645	650
10	940	935	940	315	295	310	445	435	440	695	665	670
11	935	930	930	315	300	310	465	450	455	760	695	720
12	930	925	925	320	295	310	495	470	475	830	760	770
13	940	925	930	300	260	280	520	480	505	865	825	855
14	950	940	945	325	300	320	520	455	490	865	835	850
15	955	945	950	370	325	355	500	455	480	835	785	810
16	960	940	950	395	380	385	485	470	480	790	725	730
17	970	955	965	415	400	405	475	440	465	730	650	700
18	975	975	975	405	350	385	480	430	465	670	645	665
19	990	980	985	350	330	335	500	450	475	665	638	645
20	1010	990	1000	365	325	350	520	465	490	645	615	635
21	1010	1010	1010	345	315	320	525	475	485	640	580	630
22	1020	1010	1020	390	345	375	530	480	520	580	470	540
23	1020	1000	1010	405	385	395	550	530	540	480	435	440
24	1030	1020	1020	415	395	405	575	540	560	495	440	475
25	1040	1030	1030	515	420	435	580	570	575	495	410	485
26	1030	985	990	585	515	555	580	575	580	480	410	455
27	980	890	920	580	530	550	610	575	585	475	410	450
28	890	860	870	530	490	495	615	600	610	465	385	450
29	870	860	865	490	460	475	615	600	605	450	380	430
30	935	875	910	460	425	445	615	600	610	455	375	440
31	1020	890	990	---	---	---	600	600	600	485	405	445
MONTH	1040	860	959	1000	245	408	615	380	491	865	375	604

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	475	425	465	590	540	585	470	410	450	---	---	---
2	475	345	440	560	495	510	490	450	460	---	---	---
3	480	360	460	580	495	530	520	490	510	---	---	---
4	535	370	505	620	505	600	520	500	500	---	---	---
5	570	480	550	610	510	550	550	500	510	---	---	---
6	580	430	570	580	510	540	560	550	550	---	---	---
7	570	415	530	590	490	520	565	430	540	---	---	---
8	530	350	525	500	300	410	570	480	550	---	---	---
9	530	335	520	400	310	320	570	490	555	---	---	---
10	515	265	495	420	320	400	---	---	---	---	---	---
11	490	325	480	340	320	330	---	---	---	---	---	---
12	465	370	455	---	---	---	---	---	---	---	---	---
13	460	345	450	---	---	---	---	---	---	---	---	---
14	460	385	455	---	---	---	---	---	---	---	---	---
15	490	385	460	---	---	---	---	---	---	---	---	---
16	505	485	495	---	---	---	---	---	---	---	---	---
17	530	500	500	---	---	---	---	---	---	---	---	---
18	595	535	565	---	---	---	---	---	---	---	---	---
19	625	600	610	---	---	---	---	---	---	---	---	---
20	655	625	630	---	---	---	---	---	---	---	---	---
21	650	645	650	---	---	---	---	---	---	---	---	---
22	650	615	640	---	---	---	---	---	---	---	---	---
23	650	625	650	---	---	---	---	---	---	---	---	---
24	650	635	650	410	370	390	---	---	---	---	---	---
25	645	625	640	410	370	400	---	---	---	---	---	---
26	640	600	630	400	350	370	---	---	---	---	---	---
27	620	590	610	400	340	360	---	---	---	---	---	---
28	605	590	595	410	395	400	---	---	---	---	---	---
29	---	---	---	400	320	355	---	---	---	---	---	---
30	---	---	---	350	320	330	---	---	---	---	---	---
31	---	---	---	410	355	390	---	---	---	---	---	---
MONTH	655	265	564	---	---	---	---	---	---	---	---	---

PH, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.1	7.3	7.7	7.2	7.4	7.8	7.3	7.5	---	---	---
2	7.5	7.1	7.3	7.7	7.4	7.5	7.7	7.3	7.5	---	---	---
3	7.5	7.1	7.3	7.9	7.4	7.5	7.6	7.2	7.4	---	---	---
4	7.4	7.1	7.3	8.3	7.2	7.7	7.4	7.0	7.2	---	---	---
5	7.5	7.1	7.3	8.0	7.6	7.8	7.3	6.9	7.1	---	---	---
6	7.6	7.1	7.3	8.2	7.5	7.8	7.2	7.1	7.2	---	---	---
7	7.5	7.1	7.3	7.9	7.5	7.6	7.1	6.8	7.0	---	---	---
8	7.4	6.8	7.0	8.0	7.5	7.6	7.1	6.8	7.0	---	---	---
9	7.7	7.4	7.5	7.8	7.3	7.5	7.1	6.7	6.9	---	---	---
10	7.8	7.4	7.5	7.7	7.4	7.5	7.0	6.6	6.8	---	---	---
11	7.6	7.4	7.5	7.9	7.4	7.5	7.0	6.5	6.8	---	---	---
12	7.6	7.3	7.4	7.3	7.3	7.3	6.9	6.3	6.5	---	---	---
13	7.8	7.3	7.5	---	---	---	6.7	6.3	6.4	---	---	---
14	7.6	7.2	7.4	---	---	---	6.6	6.3	6.4	---	---	---
15	7.9	7.3	7.5	---	---	---	7.1	6.5	6.8	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	7.9	7.5	7.6	---	---	---	---	---	---
20	---	---	---	7.9	7.4	7.6	---	---	---	---	---	---
21	---	---	---	7.9	7.4	7.6	---	---	---	8.0	7.8	7.9
22	---	---	---	7.9	7.2	7.6	---	---	---	8.1	8.0	8.0
23	---	---	---	7.7	7.3	7.5	---	---	---	8.0	7.8	7.9
24	---	---	---	7.8	7.2	7.5	---	---	---	8.0	7.8	7.9
25	---	---	---	7.8	7.2	7.5	---	---	---	8.0	7.8	7.9
26	---	---	---	7.9	7.2	7.5	---	---	---	7.9	7.8	7.8
27	---	---	---	7.9	7.2	7.5	---	---	---	7.7	7.7	7.7
28	---	---	---	7.8	7.3	7.5	---	---	---	7.6	7.5	7.6
29	7.3	7.0	7.2	7.7	7.2	7.5	---	---	---	7.6	7.5	7.5
30	7.6	7.0	7.3	7.7	7.1	7.4	---	---	---	7.5	7.5	7.5
31	7.3	7.1	7.3	---	---	---	---	---	---	7.5	7.4	7.5
MONTH	---	---	---	8.3	7.1	7.5	---	---	---	---	---	---

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--continued

PH, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.5	7.4	7.5	8.0	7.9	7.9	7.2	7.0	7.1	7.8	7.1	7.6
2	7.5	7.4	7.4	8.1	7.9	8.0	7.4	7.3	7.3	7.6	6.9	7.3
3	7.5	7.4	7.5	8.2	8.1	8.1	7.7	7.5	7.7	7.5	7.5	7.5
4	7.4	7.0	7.3	8.2	8.1	8.1	7.9	7.8	7.9	---	---	---
5	7.5	7.1	7.3	8.3	8.1	8.2	8.1	7.9	8.0	---	---	---
6	7.6	7.0	7.4	8.2	8.1	8.2	8.3	8.2	8.2	7.9	7.7	7.8
7	7.6	6.9	7.3	8.3	8.2	8.2	---	---	---	7.9	7.7	7.7
8	7.7	6.9	7.4	8.2	8.2	8.2	---	---	---	7.8	7.7	7.8
9	7.7	7.7	7.7	8.2	8.1	8.2	---	---	---	8.0	7.8	7.9
10	7.8	7.7	7.7	8.2	7.7	8.1	---	---	---	8.1	7.9	8.0
11	7.8	7.7	7.8	8.3	8.1	8.2	---	---	---	8.2	8.0	8.1
12	7.8	7.8	7.8	8.2	8.0	8.1	---	---	---	8.1	7.9	8.0
13	7.9	7.8	7.9	8.1	8.0	8.0	8.6	8.3	8.4	8.1	7.9	8.0
14	7.9	7.7	7.8	8.0	7.9	7.9	8.5	8.4	8.4	8.2	8.0	8.1
15	8.0	7.9	7.9	7.9	7.7	7.8	8.5	8.3	8.4	8.3	8.1	8.2
16	8.0	7.9	8.0	7.7	7.6	7.6	8.5	8.4	8.4	8.4	8.2	8.3
17	8.1	8.0	8.0	7.5	7.4	7.5	8.4	8.3	8.4	8.4	8.1	8.2
18	7.5	7.4	7.4	7.5	7.4	7.5	8.4	8.3	8.3	8.4	8.2	8.3
19	7.5	7.4	7.5	7.5	7.3	7.4	8.3	8.2	8.3	8.5	8.0	8.2
20	7.5	7.5	7.5	7.6	7.4	7.5	8.3	8.1	8.2	8.0	7.9	8.0
21	7.6	7.5	7.5	7.6	7.5	7.6	8.1	7.9	8.0	8.0	7.9	7.9
22	7.7	7.6	7.6	7.7	7.6	7.6	7.9	7.6	7.8	8.2	8.0	8.1
23	7.7	7.6	7.6	7.8	7.6	7.7	8.0	7.7	7.8	8.1	7.8	7.9
24	7.7	7.6	7.6	7.9	7.0	7.4	7.8	7.2	7.6	8.0	7.8	7.9
25	7.7	7.6	7.5	7.4	7.1	7.2	8.0	7.7	7.9	8.0	7.7	7.8
26	7.8	7.7	7.7	7.3	7.1	7.2	8.0	7.6	7.8	7.9	7.7	7.8
27	7.9	7.8	7.8	7.2	7.0	7.1	8.2	7.4	7.7	8.0	7.6	7.8
28	7.9	7.8	7.8	7.1	6.9	6.9	7.8	7.4	7.7	8.0	7.7	7.8
29	7.9	7.8	7.9	7.1	7.0	7.0	7.7	7.4	7.6	8.2	7.7	7.9
30	---	---	---	7.0	7.0	7.0	7.8	7.6	7.7	8.0	7.7	7.8
31	---	---	---	7.1	7.0	7.0	---	---	---	8.1	7.5	7.8
MONTH	8.1	6.9	7.6	8.3	6.9	7.7	8.6	7.0	7.9	8.5	6.9	7.9

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.9	7.5	7.7	8.0	7.7	7.8	---	---	---	---	---	---
2	8.3	7.6	7.8	7.8	7.6	7.7	---	---	---	---	---	---
3	8.0	7.7	7.9	7.7	7.5	7.6	---	---	---	---	---	---
4	8.2	7.6	7.9	7.8	7.5	7.6	---	---	---	---	---	---
5	8.2	7.6	8.0	8.2	7.5	7.7	---	---	---	---	---	---
6	8.2	7.7	7.9	8.1	7.6	7.8	---	---	---	---	---	---
7	8.1	7.8	7.9	8.1	7.7	7.9	---	---	---	---	---	---
8	8.2	7.7	7.9	7.8	7.7	7.7	---	---	---	---	---	---
9	7.8	7.8	7.8	8.0	7.6	7.7	---	---	---	---	---	---
10	---	---	---	8.0	7.5	7.8	---	---	---	---	---	---
11	---	---	---	8.0	7.9	7.9	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	8.1	7.6	7.9	---	---	---	---	---	---	---	---	---
30	8.0	7.7	7.8	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.0	6.9	8.2	8.9	6.9	7.7	11.8	10.7	11.2	10.3	8.7	9.5
2	9.2	6.9	7.8	8.3	6.6	7.5	11.5	10.7	11.0	10.4	8.7	9.6
3	8.0	6.5	7.6	8.0	6.8	7.6	11.7	10.9	11.3	10.3	8.8	9.5
4	9.8	7.2	8.0	9.5	7.0	8.3	12.2	11.2	11.6	10.8	8.5	9.1
5	10.4	7.4	8.6	9.2	8.2	8.7	12.1	11.0	11.5	10.7	8.7	9.8
6	10.6	7.6	9.0	9.7	7.9	8.7	12.1	10.8	11.5	11.4	10.1	10.6
7	11.0	8.3	9.5	9.5	7.9	8.6	11.9	10.7	11.3	12.3	10.4	11.2
8	10.0	7.5	8.8	8.9	8.0	8.5	11.5	10.9	11.1	11.7	11.1	11.4
9	9.0	7.6	8.4	10.1	8.2	9.3	11.4	10.6	11.1	12.7	11.5	11.9
10	9.7	7.6	8.5	11.0	8.1	9.3	11.0	9.6	10.5	11.6	11.0	11.4
11	11.5	7.6	9.2	10.9	8.3	9.8	11.2	9.6	10.1	12.6	11.0	11.6
12	10.8	8.3	9.3	9.7	8.6	9.1	10.1	9.1	9.6	13.3	11.2	12.1
13	10.3	8.1	8.9	---	---	---	10.3	9.1	9.5	12.5	11.0	11.7
14	10.9	7.6	9.0	---	---	---	10.8	9.4	10.1	11.7	10.8	11.2
15	9.6	7.9	8.6	---	---	---	10.1	9.2	9.5	12.1	11.1	11.5
16	9.1	8.1	8.5	---	---	---	---	---	---	12.7	11.2	11.8
17	10.1	8.2	8.9	---	---	---	---	---	---	12.4	11.4	11.9
18	9.8	8.0	8.7	---	---	---	---	---	---	12.8	11.9	12.3
19	9.2	7.9	8.5	10.5	8.6	9.8	---	---	---	13.5	11.3	12.1
20	8.9	8.0	8.5	11.7	8.5	10.0	---	---	---	13.0	10.8	11.6
21	9.8	7.8	8.6	10.8	9.4	10.1	---	---	---	10.4	9.9	10.2
22	8.9	7.9	8.4	10.1	8.9	9.5	---	---	---	11.3	9.9	10.3
23	---	---	---	10.5	9.6	10.1	---	---	---	11.9	10.1	10.8
24	---	---	---	12.0	9.7	10.5	---	---	---	11.3	10.2	10.7
25	---	---	---	11.3	9.7	10.5	---	---	---	11.4	10.2	10.6
26	---	---	---	11.7	10.2	10.8	---	---	---	11.4	10.6	11.0
27	---	---	---	12.1	10.4	11.1	---	---	---	11.4	10.7	11.1
28	---	---	---	11.5	10.1	10.8	---	---	---	12.0	10.9	11.5
29	7.9	6.2	7.0	11.1	10.7	10.8	10.1	9.2	9.5	12.1	11.8	11.9
30	8.0	6.1	6.7	11.5	10.5	10.9	10.3	8.5	9.6	12.7	11.5	12.0
31	8.2	6.1	7.0	---	---	---	10.6	8.7	9.5	13.2	10.9	11.7
MONTH	11.5	6.1	8.4	12.1	6.6	9.5	---	---	---	13.5	8.5	11.1

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	11.0	10.7	10.8	---	---	---	10.6	9.6	10.1	8.1	6.3	7.5
2	11.1	10.2	10.6	---	---	---	11.2	9.8	10.4	8.6	7.1	7.0
3	11.1	9.3	10.2	---	---	---	11.4	10.6	11.0	7.2	6.4	6.8
4	12.8	10.4	11.3	---	---	---	10.5	9.7	9.9	---	---	---
5	12.3	11.1	11.7	---	---	---	10.0	9.2	9.5	---	---	---
6	12.8	10.6	11.7	---	---	---	9.9	9.3	9.6	6.9	6.4	6.6
7	13.1	10.8	11.6	---	---	---	---	---	---	7.0	6.6	6.8
8	13.4	10.7	11.8	---	---	---	---	---	---	7.6	7.0	7.3
9	11.4	10.3	10.8	---	---	---	---	---	---	8.3	7.6	8.0
10	11.2	10.5	10.9	11.5	9.9	10.6	---	---	---	8.7	8.1	8.4
11	11.2	9.3	10.3	11.6	10.7	11.3	---	---	---	9.2	8.2	8.6
12	11.0	10.5	10.7	11.5	10.8	11.1	---	---	---	10.9	8.7	8.0
13	12.2	10.9	11.4	11.2	10.7	10.9	9.8	8.8	9.1	8.8	7.7	8.1
14	12.8	11.3	11.8	11.0	10.3	10.7	9.0	8.4	8.6	8.9	8.3	8.6
15	12.0	10.9	11.5	10.6	9.9	10.3	8.4	7.6	8.1	9.5	8.6	9.1
16	12.5	11.4	11.8	10.3	9.8	10.0	8.3	7.5	8.0	9.7	8.8	9.3
17	11.6	11.3	11.4	10.2	9.8	10.0	8.1	7.0	7.5	9.1	7.8	8.4
18	---	---	---	10.0	9.7	9.8	8.7	7.4	7.9	8.4	7.8	8.1
19	---	---	---	9.9	9.2	9.6	8.8	7.4	7.9	8.4	7.5	7.8
20	---	---	---	10.2	9.4	9.8	7.8	6.9	7.4	7.6	6.5	7.1
21	---	---	---	9.9	9.2	9.6	7.5	7.0	7.3	7.7	6.9	7.3
22	---	---	---	9.7	9.1	9.5	8.5	7.0	7.2	8.0	7.0	7.4
23	---	---	---	9.9	9.1	9.5	8.1	7.2	7.5	7.9	6.7	7.3
24	---	---	---	9.6	8.5	9.0	8.6	7.0	7.6	7.6	6.1	7.1
25	---	---	---	10.2	8.8	9.2	9.2	8.2	8.7	7.8	6.3	7.0
26	---	---	---	10.3	9.1	9.5	9.2	8.5	8.7	7.2	6.3	6.9
27	---	---	---	9.7	9.1	9.4	9.0	7.9	8.6	8.9	7.3	7.8
28	---	---	---	9.8	9.2	9.5	8.6	7.4	8.3	9.1	7.9	8.5
29	---	---	---	9.8	9.2	9.5	8.3	7.8	8.1	9.6	7.7	8.4
30	---	---	---	9.7	9.3	9.5	8.3	6.9	7.9	8.6	6.7	7.6
31	---	---	---	10.6	9.7	10.2	---	---	---	9.4	8.0	8.6
MONTH	---	---	---	---	---	---	11.4	6.9	8.5	10.9	6.1	7.8

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.9	6.7	7.4	8.6	6.9	7.6	---	---	---	---	---	---
2	9.2	7.2	7.8	7.4	6.7	7.1	---	---	---	---	---	---
3	9.9	7.6	8.0	7.6	6.7	7.1	---	---	---	---	---	---
4	9.6	6.8	8.1	7.1	5.3	6.1	---	---	---	---	---	---
5	9.6	7.4	8.3	8.2	6.1	6.9	---	---	---	---	---	---
6	9.1	7.8	8.2	7.8	5.9	7.0	---	---	---	---	---	---
7	8.3	7.4	7.9	6.5	5.5	5.8	---	---	---	---	---	---
8	8.5	6.5	7.4	6.7	6.1	6.4	---	---	---	---	---	---
9	7.2	6.4	6.8	7.6	6.8	7.1	---	---	---	---	---	---
10	---	---	---	7.5	6.7	7.1	---	---	---	---	---	---
11	---	---	---	7.6	7.1	7.3	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	9.1	7.2	7.9	---	---	---	---	---	---	---	---	---
30	8.5	6.7	7.7	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	6.5	6.0	6.5
8	---	---	---	---	---	---	---	---	---	6.5	6.0	6.0
9	---	---	---	---	---	---	---	---	---	7.0	6.5	7.0
10	---	---	---	---	---	---	---	---	---	7.5	7.0	7.0
11	---	---	---	---	---	---	---	---	---	7.5	7.0	7.0
12	---	---	---	---	---	---	---	---	---	7.5	7.0	7.0
13	---	---	---	---	---	---	---	---	---	7.5	7.5	7.5
14	---	---	---	---	---	---	---	---	---	7.5	6.5	7.0
15	---	---	---	---	---	---	---	---	---	6.5	6.0	6.0
16	---	---	---	---	---	---	---	---	---	5.5	5.0	5.5
17	---	---	---	---	---	---	---	---	---	5.5	5.0	5.0
18	---	---	---	---	---	---	---	---	---	6.0	5.5	5.5
19	---	---	---	---	---	---	---	---	---	7.0	6.0	6.5
20	---	---	---	---	---	---	---	---	---	7.0	6.5	7.0
21	---	---	---	---	---	---	---	---	---	7.0	7.0	7.0
22	---	---	---	---	---	---	---	---	---	7.0	6.5	6.5
23	---	---	---	---	---	---	---	---	---	7.5	6.5	7.0
24	---	---	---	---	---	---	---	---	---	7.5	7.0	7.5
25	---	---	---	---	---	---	---	---	---	7.5	7.0	7.0
26	---	---	---	---	---	---	---	---	---	7.0	6.5	6.5
27	---	---	---	---	---	---	---	---	---	7.0	6.5	6.5
28	---	---	---	---	---	---	---	---	---	6.5	6.0	6.0
29	---	---	---	---	---	---	---	---	---	6.0	5.5	6.0
30	---	---	---	---	---	---	---	---	---	5.5	5.5	5.5
31	---	---	---	---	---	---	---	---	---	5.5	5.0	5.5
MONTH	---	---	---	---	---	---	---	---	---	7.5	5.0	6.5

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--continued

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	5.5	5.0	5.0	11.0	10.5	10.5	---	---	---	---	---	---
2	5.0	4.5	5.0	10.5	10.0	10.0	---	---	---	20.5	19.5	20.0
3	4.5	4.0	4.0	10.0	9.0	9.5	---	---	---	---	---	---
4	4.5	3.5	4.0	9.5	9.0	9.0	---	---	---	---	---	---
5	4.5	4.0	4.0	9.5	9.0	9.0	---	---	---	---	---	---
6	5.0	4.5	4.5	10.0	9.0	9.5	---	---	---	20.5	19.5	20.0
7	5.0	4.0	4.5	11.5	9.5	10.5	---	---	---	19.5	19.0	19.5
8	5.0	4.5	4.5	11.5	10.5	10.5	---	---	---	19.5	18.5	19.0
9	5.0	4.0	4.5	11.5	10.5	11.0	---	---	---	---	---	---
10	5.0	4.5	5.0	12.0	11.0	11.0	---	---	---	---	---	---
11	5.0	5.0	5.0	13.5	11.5	12.0	---	---	---	19.5	18.5	19.0
12	5.0	5.0	5.0	13.0	12.0	12.5	---	---	---	19.0	17.5	18.5
13	5.5	5.0	5.0	14.0	12.5	13.5	19.0	17.0	18.0	19.5	18.0	18.5
14	6.0	5.0	5.5	14.5	13.0	13.5	19.5	18.0	19.0	20.0	19.0	19.5
15	6.5	6.0	6.5	14.0	13.0	14.0	19.5	18.5	19.0	20.5	19.0	20.0
16	7.0	6.0	6.5	13.5	13.0	13.0	19.5	18.0	19.0	21.0	20.0	20.5
17	6.5	6.5	6.5	13.5	12.5	13.0	19.0	17.0	18.0	21.5	20.5	21.0
18	6.5	6.0	6.0	13.5	13.0	13.5	19.5	18.5	19.0	22.5	21.0	21.5
19	7.0	5.5	6.0	14.0	12.5	13.0	20.0	19.5	19.5	22.0	21.5	21.5
20	6.5	6.0	6.0	14.0	13.0	13.5	20.0	18.5	19.5	22.0	21.0	21.5
21	7.5	5.5	6.5	15.0	13.0	14.0	19.5	17.5	18.5	23.0	21.5	22.0
22	7.5	7.0	7.5	15.5	14.0	15.0	19.5	17.5	18.5	24.0	22.5	23.5
23	7.5	7.0	7.0	15.5	15.0	15.0	---	---	---	23.5	23.0	23.5
24	8.0	6.5	7.5	15.0	14.0	14.5	19.5	18.5	19.0	24.0	23.0	23.5
25	8.5	8.0	8.5	15.0	13.5	14.0	19.5	18.5	19.0	24.5	23.5	24.0
26	9.5	8.5	8.5	14.5	13.0	13.5	18.5	17.0	18.0	25.0	24.0	24.0
27	9.5	8.5	9.0	14.5	12.5	13.5	17.5	17.0	17.0	25.0	24.5	24.5
28	9.5	8.5	9.0	14.5	13.0	13.5	18.5	17.0	17.5	25.0	24.5	24.5
29	10.5	9.5	10.0	14.0	13.0	13.5	---	---	---	25.0	24.5	24.5
30	---	---	---	14.0	12.5	13.0	---	---	---	24.5	24.0	24.0
31	---	---	---	13.5	12.5	13.0	---	---	---	24.5	23.5	23.5
MONTH	10.5	3.5	6.0	15.5	9.0	12.5	---	---	---	25.0	17.5	21.5

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	24.0	24.0	27.5	26.5	27.0	---	---	---	---	---	---
2	24.5	23.5	24.0	26.5	26.0	26.0	---	---	---	---	---	---
3	24.5	24.0	24.0	26.0	25.5	25.5	---	---	---	---	---	---
4	25.5	24.0	25.0	26.0	25.0	25.5	---	---	---	---	---	---
5	26.0	25.0	25.5	26.0	25.0	25.5	---	---	---	---	---	---
6	27.0	25.5	26.0	25.0	24.5	25.0	---	---	---	---	---	---
7	28.0	26.5	27.0	25.0	24.5	25.0	---	---	---	---	---	---
8	28.0	27.0	27.5	25.0	24.5	24.5	---	---	---	---	---	---
9	27.0	26.5	27.0	25.5	24.5	24.5	---	---	---	---	---	---
10	---	---	---	26.0	24.5	25.0	---	---	---	---	---	---
11	---	---	---	26.0	25.5	25.5	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	28.5	27.0	28.0	---	---	---	---	---	---	---	---	---
30	28.0	27.0	27.5	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--Continued

REMARKS.--Records furnished by Corps of Engineers, Little Rock, Ark.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	15900	50	2143	26200	80	5651	15700	50	2116
2	16100	50	2170	10200	40	1100	17600	60	2847
3	17900	60	2896	9350	40	1008	20100	60	3251
4	21400	70	4039	14400	50	1941	14800	50	1995
5	20100	60	3251	14400	50	1941	11900	40	1283
6	17300	60	2798	11300	40	1219	10200	40	1100
7	14400	50	1941	8690	40	937	14800	50	1995
8	11600	40	1251	11100	40	1197	19000	60	3073
9	13800	50	1860	15700	50	2116	50500	150	20422
10	6810	30	551	17700	60	2863	161000	800	347245
11	10800	40	1165	28300	90	6866	160000	790	340774
12	11700	40	1262	11900	40	1283	117000	490	154562
13	9250	40	998	20300	60	3284	82500	290	64502
14	13900	50	1873	5080	30	411	61900	190	31708
15	7800	30	631	6450	30	522	90300	340	82773
16	9800	40	1057	10600	40	1143	133000	600	215141
17	9330	40	1006	11600	40	1251	139000	640	239836
18	9460	40	1020	17200	60	2782	134000	610	220371
19	12200	40	1316	28100	90	6818	129000	570	198237
20	20100	60	3251	27600	80	5953	118000	500	159064
21	40300	120	13037	13600	50	1833	115000	480	148819
22	67600	210	38272	17800	60	2879	104000	420	117761
23	70100	220	41578	21400	70	4038	97800	380	100194
24	58600	180	28437	24200	70	4567	91400	350	86245
25	41800	120	13523	11200	40	1208	88500	330	78737
26	48600	140	18344	15400	50	2076	72300	230	44832
27	41000	120	13264	18800	60	3041	60600	180	29408
28	39200	120	12681	11600	40	1251	61600	190	31554
29	30100	90	7303	13900	50	1874	56100	170	25712
30	26200	80	5651	20200	60	3268	53600	160	23121
31	26200	80	5651	--	--	--	51200	150	20705
TOTAL	759350	--	234220	474270	--	76371	2352600	--	2799383

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	50600	150	20463	23600	70	4454	11400	40	1229
2	55100	170	25253	15700	50	2116	8470	40	913
3	55300	170	25345	20500	70	3869	11000	40	1186
4	46400	140	17513	23200	70	4378	11000	40	1186
5	48700	140	18381	17000	60	2750	9700	40	1046
6	41400	120	13394	3310	20	178	7440	30	602
7	31800	100	8573	17000	60	2750	8460	40	912
8	31800	100	8573	20600	70	3888	7390	30	598
9	27000	80	5823	16100	50	2170	7520	30	608
10	21500	70	4057	10000	40	1078	2790	20	150
11	30900	90	7498	14400	50	1941	2420	20	130
12	31700	100	8546	12100	40	1305	2360	20	127
13	26100	80	5629	10700	40	1154	3750	20	202
14	32000	100	8627	12400	40	1337	17200	60	2782
15	34000	100	9166	12000	40	1294	8490	40	916
16	30600	90	7425	8940	40	964	12700	50	1712
17	26000	80	5608	10900	40	1175	13900	50	1874
18	24700	80	5327	9180	40	990	1650	10	44
19	33400	100	9005	7540	30	610	419	10	11
20	26200	80	5651	6480	30	524	9030	40	974
21	30100	90	7303	12300	40	1326	9240	40	996
22	15000	50	2022	11200	40	1208	8990	40	970
23	11300	40	1219	13700	50	1847	7490	30	606
24	16700	60	2701	16300	50	2197	8890	40	959
25	24800	80	5349	16600	60	2685	1780	10	48
26	22100	70	4171	18200	60	2944	1600	10	43
27	22000	70	4152	8670	40	935	11200	40	1208
28	26400	80	5694	9680	40	1044	10100	40	1089
29	22900	70	4322	11300	40	1219	11200	40	1208
30	21300	70	4020	--	--	--	10200	40	1100
31	17900	60	2896	--	--	--	7410	30	599
TOTAL	935700	--	263706	389600	--	56322	245189	--	26028

07250550 Arkansas River at Dam No. 13, near Van Buren, Ark.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2290	10	62	14200	50	1914	4270	20	230
2	2360	20	127	25400	80	5478	4090	20	227
3	3450	20	186	31100	90	7546	1670	10	45
4	8230	40	888	32000	100	8627	697	10	19
5	2690	20	145	31800	100	8573	5390	30	436
6	4510	20	243	24500	80	5284	6960	30	563
7	4970	30	402	10000	40	1078	10000	40	1078
8	807	10	22	17500	60	2831	9770	40	1054
9	1750	10	47	19900	60	3219	10500	40	1132
10	5430	30	439	18700	60	3025	1330	10	36
11	9200	40	992	22800	70	4303	960	10	26
12	11300	40	1219	26900	80	5802	8490	40	916
13	13800	50	1860	16200	50	2184	12300	40	1326
14	14500	50	1955	13000	50	1752	10800	40	1165
15	4040	20	218	19400	60	3138	6200	30	501
16	2020	10	54	27200	80	5802	5890	30	476
17	11700	40	1262	25800	80	5565	1990	10	54
18	11900	40	1283	25900	80	5586	773	10	21
19	9610	40	1036	22700	70	4284	5240	30	424
20	9520	40	1027	26800	80	5788	6390	30	517
21	30400	90	7376	16200	50	2184	8160	30	424
22	52000	150	21029	21000	70	3963	7060	30	571
23	14800	50	1995	23300	70	4397	3700	20	200
24	23000	70	4341	16000	50	2157	3930	20	212
25	20300	70	3831	15000	50	2022	2450	20	132
26	21000	70	3963	15000	50	2022	8310	40	896
27	22700	70	4284	7180	30	581	7710	30	624
28	21700	70	4095	1730	20	93	13200	50	1779
29	10000	40	1078	1570	20	85	15600	50	2103
30	2860	10	77	5410	30	438	16100	50	2170
31	--	--	--	4650	20	251	--	--	--
TOTAL	352037	--	69536	578840	---	109965	199930	--	19351

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6860	30	556	21400	70	4039	3740	20	202
2	1980	10	53	20000	60	3239	2010	10	54
3	5840	30	472	17100	60	2766	267	10	7
4	1080	10	29	17200	60	2782	200	10	5
5	2940	20	159	4860	30	393	3120	20	168
6	16690	60	2685	1250	10	34	3760	20	203
7	21400	70	4039	12600	50	1698	4030	20	217
8	8220	30	665	16300	50	2197	8300	30	671
9	1610	10	43	14200	50	1914	6550	30	530
10	6870	30	556	15000	50	2022	1960	10	53
11	11900	40	1283	9610	40	1036	7310	30	530
12	13200	50	1779	1750	10	47	16900	60	2734
13	27400	80	5910	877	10	24	12700	50	1712
14	29200	90	7085	7280	30	589	13900	50	1874
15	8950	40	965	12500	40	1348	9620	40	1037
16	2460	20	133	14400	50	1941	8590	40	926
17	12300	40	1326	12300	40	1326	2480	20	134
18	14700	50	1982	9670	40	1043	9510	40	1026
19	13800	50	1860	2840	20	153	14400	50	1941
20	19200	60	3106	1240	10	33	17000	60	2750
21	23100	70	4359	10200	40	1100	13200	50	1779
22	19700	60	3187	15800	50	2130	7790	30	630
23	8270	30	669	10600	40	1143	886	10	24
24	16700	60	2701	5970	30	483	668	10	18
25	20600	70	3888	6290	30	509	7550	30	611
26	19300	60	3122	2320	20	125	9330	40	1006
27	20600	70	3888	897	10	24	9570	40	1032
28	19900	60	3219	3620	20	195	25900	80	5586
29	13000	50	1752	4170	20	225	24100	70	4548
30	3340	20	180	2450	20	132	6850	30	554
31	14800	50	1995	3720	20	201	--	--	--
TOTAL	405820	--	63644	278414	--	36887	252191	--	32562

07258000 Arkansas River at Dardanelle, Ark.

LOCATION.--Lat 35°13'34", long 93°08'58", in SW¼ sec.29, T.7 N., R.20 W., Yell County, at gaging station near left bank on downstream side of bridge on State Highway 7 at Dardanelle, 1 mi (1.6 km) upstream from Whig Creek, 2.0 mi (3.2 km) downstream from Dardanelle Dam, 4.7 mi (7.6 km) downstream from Illinois Bayou, and at mile 219.5 (353.2 km).

DRAINAGE AREA.--153,707 mi^2 (398,000 km^2), of which 22,241 mi^2 (57,604 km^2) is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: October 1948 to September 1961, August 1962 to August 1963.
Water temperatures: October 1948 to September 1961, July 1971 to September 1973.
Sediment records: October 1967 to September 1972.

EXTREMES.--Water year 1972:
Sediment concentrations: Maximum daily, 380 mg/l Dec. 11; minimum daily, 10 mg/l on many days during the year.
Sediment discharge: Maximum daily, 251,000 tons (228,000 tonnes) Dec. 11; minimum daily, 5 tons (4 tonnes) Apr. 9.
Water year 1973:
Water temperatures: Maximum, 29.5°C July 26-31, Aug. 1; minimum, 1.5°C Jan. 17.
Period of record:
Sediment concentrations (1968-72): Maximum daily, 1,640 mg/l Apr. 26, 1970; minimum daily, 10 mg/l on many days in 1968, 1969, 1970, and 1972.
Sediment discharge (1968-72): Maximum daily, 1,120,000 tons (1,016,000 tonnes) Apr. 26, 1970; minimum daily, 3 tons (3 tonnes) Dec. 6, 1970.
Water temperatures (1948-61, July 1971-73): Maximum, 34°C Aug. 17, 1952; minimum, freezing point on several days during winter months.

REMARKS.--Sediment records furnished by Corps of Engineers, Little Rock, Ark. Flow regulated by many reservoirs upstream.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

FIELD ANALYSES

DATE	INSTANTANEOUS DISCHARGE (CFS)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION
OCT.					
24...	31700	900	17.0	8.6	91
NOV.					
20...	108000	374	8.0	14.6	101
JAN.					
22...	132000	550	5.5	13.1	104
FEB.					
27...	17600	580	7.5	11.8	98
MAR.					
30...	154000	375	12.0	9.9	92
MAY					
08...	205000	237	18.5	8.8	93
JUNE					
15...	69300	410	24.0	8.9	105
JULY					
09...	25100	355	28.5	6.0	77
AUG.					
13...	37600	442	28.0	4.8	61
SEP.					
17...	10000	710	25.0	6.3	76

07258000 Arkansas River at Dardanelle, Ark.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(CONTINUOUS RECORDING THERMOMETER)

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	24.0	23.5	14.0	14.0	7.0	6.5	5.5	5.5	5.5	5.0	7.5	7.5
2	24.0	23.0	14.0	14.0	6.5	6.5	6.0	5.5	5.5	5.5	8.0	7.5
3	23.5	23.0	14.0	14.0	6.5	6.5	6.0	6.0	5.5	5.5	8.5	8.0
4	22.5	22.5	14.0	14.0	7.0	6.5	6.0	6.0	6.0	5.5	9.0	8.5
5	22.5	22.5	14.0	13.5	6.5	6.5	6.0	5.5	6.0	5.5	9.5	9.0
6	22.5	22.0	13.5	13.5	6.5	6.5	5.5	5.5	7.0	6.0	10.0	9.5
7	22.0	21.5	13.5	13.0	6.5	6.0	5.5	5.0	7.0	7.0	10.0	10.0
8	21.5	21.5	13.0	13.0	6.0	5.5	5.0	4.5	7.0	7.0	11.0	10.0
9	21.5	21.5	13.0	12.5	5.5	5.5	4.5	4.0	7.0	6.5	11.5	11.0
10	21.5	21.0	12.5	12.5	5.5	5.0	4.0	4.0	6.5	6.0	12.0	11.5
11	21.5	21.0	12.5	12.0	5.0	4.5	4.0	3.5	6.0	6.0	12.5	12.0
12	21.5	21.0	12.0	11.5	4.5	4.0	3.5	3.0	6.0	5.5	12.5	12.5
13	21.5	21.0	11.5	11.5	4.0	4.0	3.0	2.5	5.5	5.5	13.0	12.5
14	21.5	21.5	11.5	11.0	4.0	3.5	2.5	2.0	5.5	5.5	13.0	13.0
15	21.5	21.5	11.0	10.5	3.5	3.5	2.0	2.0	6.0	5.5	13.5	13.0
16	21.5	21.0	10.5	10.0	3.5	3.5	2.5	2.0	6.0	5.5	13.5	13.0
17	21.0	21.0	10.5	9.5	3.5	3.5	2.5	1.5	5.5	5.5	13.0	12.0
18	21.0	20.5	9.5	9.0	3.5	3.0	2.5	2.5	5.5	5.5	12.0	12.0
19	20.5	20.0	9.0	8.5	3.0	3.0	3.0	2.5	5.5	5.5	12.0	12.0
20	20.0	19.0	8.5	8.0	3.0	3.0	4.0	3.0	5.5	5.5	12.0	12.0
21	19.0	18.5	8.0	8.0	3.5	3.0	5.0	4.0	6.0	5.5	12.0	12.0
22	18.5	18.5	8.0	7.5	4.0	3.5	6.0	5.0	6.5	6.0	12.0	12.0
23	18.5	17.5	7.5	7.0	4.0	4.0	6.0	6.0	6.5	6.5	12.0	12.0
24	17.5	17.0	7.0	7.0	4.0	4.0	6.0	6.0	6.5	6.5	12.0	12.0
25	17.0	16.0	7.0	7.0	4.0	4.0	6.5	6.0	6.5	6.5	12.0	11.0
26	16.0	15.0	7.0	6.5	4.5	4.0	6.5	6.5	7.5	6.5	11.0	11.0
27	15.0	15.0	6.5	6.5	5.0	4.5	6.5	6.5	7.5	7.5	11.0	11.0
28	15.0	14.5	6.5	6.5	5.0	5.0	6.5	6.0	7.5	7.5	11.0	10.5
29	14.5	14.5	6.5	6.5	5.0	5.0	6.0	5.5	---	---	11.5	11.0
30	14.5	14.0	6.5	6.5	5.5	5.0	5.5	5.5	---	---	12.0	12.0
31	14.0	14.0	---	---	5.5	5.5	5.5	5.0	---	---	12.5	12.0
MONTH	24.0	14.0	14.0	6.5	7.0	3.0	6.5	1.5	7.5	5.0	13.5	7.5

	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	12.5	12.5	17.0	16.5	21.5	21.5	26.5	26.5	29.5	29.0	28.0	28.0
2	12.5	12.0	17.5	17.0	21.5	21.5	26.5	26.0	29.0	29.0	28.0	28.0
3	12.0	11.5	17.5	17.5	21.5	21.5	27.5	26.5	29.0	28.5	28.0	28.0
4	11.5	11.0	18.0	17.5	21.5	21.5	28.0	27.5	29.0	28.5	28.0	27.5
5	11.0	10.5	18.0	18.0	21.5	21.5	28.0	28.0	28.5	28.5	27.5	27.0
6	11.0	10.5	18.5	18.0	21.5	21.5	28.0	28.0	28.5	28.5	27.0	26.5
7	10.5	10.5	18.5	18.5	21.5	21.5	28.0	28.0	28.5	28.5	26.5	26.0
8	10.5	10.5	18.5	18.5	22.0	21.5	29.0	28.0	28.5	28.0	25.5	25.5
9	10.5	10.5	18.5	18.5	23.0	22.0	28.5	28.0	28.5	28.0	25.5	25.5
10	10.5	10.0	19.5	18.5	23.0	22.0	28.5	28.0	28.5	28.0	25.5	25.5
11	10.0	9.5	20.5	19.5	23.5	23.0	28.5	28.5	29.0	28.0	25.5	25.5
12	10.0	10.0	20.5	20.5	24.0	23.5	28.5	28.5	28.0	28.0	25.5	25.5
13	10.5	10.0	20.5	20.5	24.0	24.0	28.5	28.0	28.0	27.5	25.5	25.5
14	10.5	10.5	20.5	20.5	24.0	24.0	28.0	28.0	28.0	28.0	25.5	25.5
15	11.0	10.5	20.5	20.0	24.0	24.0	28.0	28.0	28.0	28.0	25.5	25.0
16	11.5	11.0	20.0	20.0	24.5	24.0	28.0	28.0	28.0	28.0	25.5	25.0
17	12.0	11.5	20.0	20.0	24.5	24.5	28.0	28.0	28.0	28.0	25.5	25.0
18	12.5	12.0	20.0	20.0	25.0	24.5	28.0	28.0	28.5	28.0	25.0	24.5
19	13.0	12.5	20.5	20.0	25.0	25.0	28.0	28.0	29.0	28.0	24.5	24.0
20	13.5	13.0	21.0	20.5	25.0	25.0	28.0	28.0	28.5	28.0	24.0	24.0
21	14.5	13.5	21.5	21.0	25.0	24.5	29.0	28.0	28.5	28.5	24.0	24.0
22	15.0	14.5	22.0	21.5	25.0	25.0	29.0	29.0	28.5	28.0	24.0	24.0
23	15.5	15.0	22.0	21.5	25.0	25.0	29.0	29.0	28.0	28.0	24.0	24.0
24	15.5	15.5	22.5	22.0	25.0	25.0	29.0	29.0	28.0	28.0	24.0	24.0
25	16.0	15.5	22.5	22.5	26.0	25.5	29.0	29.0	28.0	28.0	24.0	23.5
26	16.0	16.0	22.5	22.5	26.0	26.0	29.5	29.0	28.5	28.0	24.0	23.5
27	16.5	16.0	22.5	22.5	26.5	26.0	29.5	29.5	28.5	28.0	24.0	24.0
28	17.0	16.5	22.5	21.5	26.5	26.5	29.5	29.5	28.0	28.0	24.0	24.0
29	16.5	16.0	21.5	21.0	26.5	26.5	29.5	29.5	28.0	28.0	24.0	24.0
30	16.5	16.5	21.5	21.0	26.5	26.5	29.5	29.5	28.0	28.0	24.0	24.0
31	---	---	21.5	21.5	---	---	29.5	29.0	28.0	28.0	---	---
MONTH	17.0	9.5	22.5	16.5	26.5	21.5	29.5	26.0	29.5	27.5	28.0	23.5

07258000 Arkansas River at Dardanelle, Ark.--Continued

REMARKS.--Records furnished by Corps of Engineers, Little Rock, Ark.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	17400	30	1407	27900	40	3009	15200	20	820
2	14400	20	776	17000	30	1375	23200	30	1876
3	12200	20	657	21000	30	1698	23600	30	1887
4	22400	30	1812	13900	20	749	16400	30	1326
5	28400	40	3063	10100	20	545	9780	10	264
6	16000	30	1294	10400	20	561	15300	20	825
7	22500	30	1820	10300	20	555	10400	20	561
8	9720	10	262	11000	20	593	18100	30	1464
9	7230	10	195	10400	20	561	56000	60	9059
10	4890	10	132	11500	20	620	237000	360	230000
11	8530	10	230	20500	30	1658	245000	380	251000
12	16000	30	1294	28800	40	3106	161000	220	95490
13	14000	20	755	19100	20	1545	115000	140	43410
14	12900	20	696	17600	30	1423	93900	100	25320
15	9260	10	250	7100	10	191	89700	100	24180
16	9300	10	251	8430	10	227	112000	130	39250
17	7190	10	194	11500	20	620	129000	160	55650
18	9380	10	253	21400	30	1731	128000	160	55210
19	13200	20	712	23000	30	1860	124000	150	50150
20	16000	30	1294	22600	30	1828	119000	140	44920
21	30900	40	3332	23700	30	1917	113000	130	39440
22	39100	50	5271	13900	20	749	104000	120	33650
23	63500	60	10270	21600	30	1747	96000	110	28470
24	67200	70	12680	23300	30	1884	88700	100	23910
25	54400	60	8800	13200	20	712	81500	90	19780
26	41000	50	5527	11200	20	604	78700	80	16970
27	45000	50	6066	18000	30	1456	69200	70	13060
28	33300	40	3591	11700	20	631	61900	60	10010
29	36800	40	3969	14900	20	803	58700	60	9495
30	31100	40	3354	15900	20	857	61400	60	9932
31	28400	40	3063	--	--	--	52500	50	7077
TOTAL	741600	--	83270	490930	--	35815	2607200	--	1144456

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	49200	50	6632	22300	30	1804	9420	10	253
2	51600	50	6956	22300	30	1804	18900	30	1529
3	55700	60	9010	25400	30	2054	12800	20	690
4	60200	60	9738	18000	30	1456	6340	10	170
5	40000	50	5392	8700	10	234	5400	10	146
6	42600	50	5742	4060	10	111	11000	20	593
7	35900	40	3871	16300	30	1318	7310	10	197
8	39100	50	5271	12100	20	652	11800	20	636
9	22200	30	1796	19400	30	1569	9260	10	251
10	29900	40	3224	21900	30	1771	5960	10	162
11	25600	30	2070	18900	30	1529	703	10	19
12	34400	40	3710	5750	10	156	357	10	11
13	40100	50	5405	3380	10	92	5480	10	148
14	28800	40	3106	13700	20	739	8060	10	218
15	24100	30	1949	12400	20	669	13800	20	744
16	23900	30	1933	12900	20	696	13800	20	744
17	34100	40	3677	11900	20	642	10200	20	550
18	32000	40	3451	14200	20	766	7180	10	194
19	23700	30	1917	17500	30	1415	317	10	8
20	26800	40	2890	6030	10	162	6310	10	170
21	34400	40	3710	8860	10	240	7770	10	210
22	25100	30	2030	13900	20	749	10900	20	588
23	13300	20	717	13700	20	739	9170	10	248
24	17100	30	1383	12000	20	647	10400	20	561
25	25600	30	2070	14900	20	803	6200	10	167
26	25200	30	2038	15400	20	830	268	10	8
27	22100	30	1787	11200	20	604	6070	10	164
28	17300	30	1399	16400	30	895	16500	30	1335
29	21800	30	1763	10700	20	577	16100	30	1302
30	10300	20	555	--	--	--	11100	20	598
31	22900	30	1852	--	--	--	7330	10	197
TOTAL	955000	--	107044	404180	--	25723	266205	--	12811

07258000 Arkansas River at Dardanelle, Ark.--Continued

REMARKS.--Records furnished by Corps of Engineers, Little Rock, Ark.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	2200	10	59	18300	30	1480	4210	10	113
2	312	10	8	33300	40	3591	7160	10	194
3	8400	10	226	35200	40	3796	2440	10	65
4	6570	10	178	40800	50	5500	654	10	19
5	18800	30	1521	39400	50	5311	4350	10	119
6	15400	20	830	39100	50	5271	4370	10	119
7	10500	20	566	26800	40	2890	6400	10	173
8	2260	10	62	26500	40	2858	8450	10	226
9	223	10	5	16800	30	1359	8840	10	237
10	7800	10	210	22700	30	1836	1420	10	38
11	8900	10	240	21700	30	1755	791	10	22
12	10300	20	554	23000	30	1860	8000	10	216
13	15200	20	820	28800	40	3106	12000	20	647
14	16900	30	1367	15200	20	820	8460	10	229
15	5660	10	154	17600	30	1423	6560	10	178
16	269	10	8	24600	30	1990	6270	10	170
17	15400	20	830	22800	30	1844	1580	10	43
18	15100	20	814	23200	30	1876	3630	10	97
19	16200	30	1310	24000	30	1941	4730	10	127
20	20700	30	1674	30500	40	3289	7220	10	194
21	34200	40	3688	19100	30	1545	5450	10	146
22	57200	60	9253	13700	20	739	6950	10	189
23	56700	60	9172	24100	40	2599	4360	10	119
24	32100	40	3462	16400	30	1326	3260	10	89
25	24800	30	2006	17000	30	1375	1010	10	27
26	24600	30	1990	14500	20	782	13100	20	706
27	22700	30	1836	5320	10	143	13100	20	706
28	25500	30	2062	654	10	19	12100	20	652
29	29800	40	3214	1540	10	40	10300	20	555
30	8090	10	218	4740	10	127	11200	20	604
31	--	--	--	2970	10	81	--	--	--
TOTAL	512784	--	48337	650324	--	62572	188365	--	7019

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6970	10	189	18000	30	1456	3200	10	86
2	1520	10	40	17700	30	1432	3040	10	81
3	6840	10	183	19100	30	1545	772	10	22
4	3380	10	92	16900	30	1367	2600	10	70
5	4190	10	113	4930	10	132	3420	10	92
6	13400	20	723	840	10	22	3130	10	84
7	30600	40	3300	15400	20	830	2980	10	81
8	25600	30	2071	14700	20	793	5980	10	162
9	2680	10	73	11600	20	625	6290	10	170
10	3710	10	100	13000	20	701	438	10	11
11	8000	10	216	13600	20	733	8380	10	226
12	9870	10	267	1260	10	35	11600	20	625
13	23300	30	1884	2440	10	65	11400	20	615
14	31000	40	3343	13600	20	733	12300	20	663
15	8040	10	216	11800	20	636	13700	20	739
16	760	10	22	13100	20	706	9430	10	253
17	11300	20	609	11000	20	593	451	10	13
18	12700	20	685	11600	20	625	11500	20	620
19	17600	30	1423	2860	10	78	12400	20	669
20	20000	30	1618	691	10	19	12600	20	679
21	22900	30	1852	11800	20	636	8910	10	240
22	21400	30	1731	10700	20	577	9440	10	253
23	5810	10	156	3350	10	92	7880	10	213
24	19900	30	1610	8020	10	216	2270	10	62
25	18700	30	1512	11100	20	599	5830	10	156
26	18400	30	1488	2420	10	65	9570	10	259
27	18600	30	1504	698	10	19	12400	20	669
28	18200	30	1472	6640	10	178	15600	20	841
29	11400	20	614	3130	10	84	22200	30	1796
30	706	10	19	2600	10	70	15500	20	836
31	16700	30	1351	3430	10	92	--	--	--
TOTAL	414176	--	30476	278009	--	15754	245211	--	11286

07261235 East Fork Cadron Creek north of Conway, Ark.

LOCATION.--Lat 35°09'21", long 92°23'58", in SW¼NW¼ sec.16, T.6 N., R.13 W., Faulkner County, at bridge on U.S. Highway 65, 3.8 mi (6.1 km) northeast of junction of U.S. Highway 65 and Interstate Highway 40.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.												
17...	--	--	--	--	13	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	3.5	--	--	--	--	--
JAN.												
02...	--	--	2.0	3.0	--	<1.0	--	<.10	.06	--	--	--
03...	450	60	--	--	8	--	4.0	--	--	42	13	55
APR.												
03...	250	51	2.0	3.0	10	6.0	4.0	.20	.03	53	--	53
SEP.												
04...	1410	1150	5.0	3.0	28	7.0	5.0	<.01	.08	48	24	72

DATE	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.											
17...	--	--	--	6.3	--	--	50	--	44	2.2	--
18...	--	--	48	--	17.0	--	--	4.2	--	--	--
JAN.											
02...	17	4.0	--	--	--	--	--	--	--	--	1030
03...	--	--	33	5.8	8.0	60	25	6.8	57	1.1	--
APR.											
03...	17	6.0	44	6.4	12.0	55	<25	7.1	66	1.9	375
SEP.											
04...	25	12	63	6.9	26.0	20	20	1.8	23	2.4	175

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
17...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	140	520	<3	4	<100	<5	--	--	<.1	--	<4
03...	--	--	--	--	--	--	<15	<2	--	<50	--
APR.											
03...	24	40	<3	<2	<10	--	<5	6	<.1	5	5
SEP.											
04...	93	106	<3	<2	13	--	<20	<5	--	<2	6

07261250 Cadron Creek west of Conway, Ark.

LOCATION.--Lat 35°06'53", long 92°31'20", in SW¼NW¼ sec.32, T.6 N., R.14 W., Faulkner County, 120 ft (37 m) upstream from bridge on U.S. Highway 64 at county line near Conway.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
17...	--	--	--	--	--	26	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	5.0	--	--	--	--
JAN.												
02...	--	--	--	2.0	2.0	--	5.5	--	.21	.08	--	--
03...	--	410	40	--	--	7	--	4.5	--	--	49	--
APR.												
03...	--	250	20	2.0	1.0	12	1.0	4.0	.40	.05	55	4
05...	14200	--	--	--	--	--	--	--	--	--	--	--
SEP.												
04...	--	527	70	8.0	2.0	32	7.0	5.0	<.10	.07	59	24

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
17...	--	--	--	--	6.7	--	--	40	--	76	2.2	--
18...	--	--	--	793	--	18.0	--	--	7.1	--	--	--
JAN.												
02...	--	13	4.0	--	--	--	--	--	--	--	--	806
03...	27	--	--	35	5.9	8.0	60	25	10.0	84	1.3	--
APR.												
03...	59	9	6.0	34	6.5	12.0	50	<25	8.4	78	1.2	425
05...	--	--	--	--	--	--	--	--	--	--	--	--
SEP.												
04...	83	28	20	73	7.2	26.0	15	16	4.0	49	1.0	300

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
17...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	103	242	8	<2	<100	<5	--	--	<.1	--	<4
03...	--	--	--	--	--	--	<15	3	--	<50	--
APR.											
03...	40	200	<3	<2	<10	--	<5	6	<.1	<4	5
05...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
04...	70	246	<3	<2	<4	--	<20	5	--	2	<4

07263450 Arkansas River at Murray Dam, at Little Rock, Ark.

LOCATION.--Lat 34°47'27", long 92°21'32", in sec.23, T.2 N., R.13 W., Pulaski County, at gaging station in Murray Dam control house on right bank at mile 141.5 (227.7 km).

DRAINAGE AREA.--158,030 mi² (409,298 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--Sediment records: October 1968 to September 1972. Prior to October 1970, published as 07263500 Arkansas River at Little Rock.

EXTREMES.--1971-72:
Sediment concentrations: Maximum daily, 590 mg/l Dec. 12; minimum daily, 10 mg/l on many days.
Sediment discharge: Maximum daily, 377,000 tons (342,000 tonnes) Dec. 12; minimum daily, 37 tons (34 tonnes) Sept. 1.

Period of record:
Sediment concentrations: Maximum daily, 3,410 mg/l Oct. 29, 1970; minimum daily, 10 mg/l on many days during 1969-72.
Sediment discharge: Maximum discharge, 1,430,000 tons (1,297,000 tonnes) Oct. 29, 1970; minimum daily, 37 tons (34 tonnes) Sept. 1, 1972.

REMARKS.--Records furnished by Corps of Engineers, Little Rock, Ark.

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	17500	30	1415	27800	50	3747	15600	30	1262
2	17100	30	1383	21700	40	2340	19900	40	2146
3	14800	30	1197	17500	30	1415	22200	40	2394
4	15400	30	1245	15500	30	1254	19400	40	2092
5	22400	40	2416	11400	20	615	14800	30	1197
6	23200	40	2502	8990	10	242	13100	30	1059
7	14400	30	1165	8950	10	241	14600	30	1181
8	19900	40	2146	10400	10	281	14100	30	1140
9	7740	10	209	10400	10	281	39200	60	6341
10	6530	10	176	14100	30	1140	138000	290	10790
11	5080	10	137	13600	30	1100	228000	570	350400
12	10600	10	286	25600	40	2760	237000	590	377000
13	17700	30	1431	20400	40	2200	198000	480	256200
14	11300	20	609	17200	30	1391	159000	350	150000
15	11200	20	604	13700	30	1108	142000	300	114800
16	6450	10	174	5430	10	146	140000	300	113200
17	10500	10	283	9130	10	246	154000	340	141200
18	8780	10	237	19000	30	1536	164000	370	163600
19	9800	10	264	23200	40	2502	163000	360	158200
20	14300	30	1157	22100	40	2383	158000	350	149100
21	25000	40	2696	20200	40	2178	146000	310	122000
22	32600	50	4394	20700	40	2232	139000	290	108700
23	46600	70	9002	13200	30	1068	131000	270	95360
24	63100	100	17010	21000	40	2265	119000	230	73790
25	64300	100	17340	22900	40	2470	109000	210	61700
26	49600	70	9361	9480	10	256	99800	180	48430
27	39400	60	6373	11900	20	642	92700	170	42490
28	38400	60	6212	18100	30	1464	79300	130	27790
29	34300	50	4624	14300	30	1157	71800	120	23230
30	33000	50	4448	12100	20	652	75000	120	24260
31	29400	50	3963	--	--	--	71500	120	23130
TOTAL	720380	--	104458	479980	--	41312	3188000	--	2654182

07263450 Arkansas River at Murray Dam, at Little Rock, Ark.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JANUARY			FEBRUARY			MARCH		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	62800	100	16930	24600	40	2653	11700	20	631
2	62100	100	16740	28400	50	3828	13600	30	1100
3	64000	100	17250	27500	40	2966	20200	40	2178
4	70400	120	22780	29800	50	4017	10800	10	291
5	68100	110	20200	18000	30	1456	6260	10	169
6	55300	80	11930	9110	10	246	10600	10	286
7	54200	80	11690	11000	20	593	11200	20	604
8	49000	70	9247	17800	30	1440	9170	10	247
9	49000	70	9247	17300	30	1399	12100	20	652
10	39900	60	6454	21200	40	2286	7800	10	210
11	39100	60	6325	24000	40	2588	4460	10	120
12	38800	60	6276	14900	30	1205	3510	10	95
13	46700	70	8813	6350	10	171	3240	10	87
14	49400	70	9323	12100	20	652	4560	10	123
15	34800	50	4691	14600	30	1181	14700	30	1189
16	35000	50	4718	16700	30	1351	16700	30	1351
17	33500	50	4516	15900	30	1286	14000	30	1132
18	44200	60	7150	14200	30	1148	4520	10	122
19	33500	50	4516	17500	30	1415	5210	10	140
20	32000	50	4314	14200	30	1148	6470	10	174
21	33800	50	4556	7490	10	202	6590	10	178
22	36600	50	4934	13100	30	1060	11000	20	593
23	25400	40	2739	18300	30	1480	10200	10	275
24	13700	30	1108	15300	30	1237	8710	10	234
25	20100	40	2168	17300	30	1399	11100	20	599
26	27600	50	3720	17400	30	1407	5880	10	159
27	27400	40	2955	19100	40	2060	4800	10	129
28	22800	40	2459	17200	30	1391	14300	30	1157
29	23100	40	2491	15700	30	1270	21100	40	2275
30	25000	40	2696	--	--	--	14600	30	1181
31	15200	40	1639	--	--	--	10500	10	283
TOTAL	1232500	--	234575	496050	--	44535	309580	--	17964

	APRIL			MAY			JUNE		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	6760	10	182	12800	20	690	3420	10	92
2	4590	10	124	37200	60	6017	3750	10	101
3	7140	10	192	46600	70	8794	2820	10	76
4	10200	10	275	46500	70	8775	4610	10	124
5	14400	30	1165	48300	70	9115	3120	10	84
6	21500	40	1553	47900	70	9040	2960	10	80
7	10700	10	288	42400	60	6859	3550	10	96
8	10700	10	288	33600	50	4529	7760	10	209
9	6390	10	172	29800	50	4017	9650	10	260
10	4620	10	124	19700	40	2124	3580	10	97
11	9320	10	251	24900	40	2685	2570	10	69
12	12100	20	652	23200	40	2502	4110	10	111
13	15700	30	1270	30900	50	4165	9550	10	257
14	18000	30	1456	23200	40	2502	12100	20	652
15	8220	10	222	19000	30	1536	6980	10	188
16	6920	10	187	19100	40	2060	5880	10	158
17	10700	10	288	26000	40	2803	2730	10	74
18	20300	40	2189	21900	40	2361	4270	10	115
19	14900	30	1205	21000	40	2265	3010	10	81
20	18800	30	1521	26500	40	2858	5350	10	144
21	32500	50	4381	28800	50	3882	6210	10	167
22	52900	80	11410	14800	30	1197	6200	10	167
23	70500	120	22810	16300	30	1318	2220	10	60
24	56500	90	13710	25900	40	2793	2750	10	74
25	34600	50	4664	16500	30	1335	4250	10	115
26	34400	50	4637	16300	30	1318	9310	10	251
27	29700	50	4004	6680	10	180	14300	30	1157
28	35200	50	4381	2990	10	81	15500	30	1254
29	35000	50	4718	2470	10	67	11900	20	642
30	31400	50	4233	4260	10	115	9670	10	261
31	--	--	--	2750	10	74	--	--	--
TOTAL	644660	--	92552	738250	--	98057	184080	--	7261

07263450 Arkansas River at Murray Dam, at Little Rock, Ark.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JULY			AUGUST			SEPTEMBER		
DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	4890	10	132	19500	40	2103	1360	10	37
2	6120	10	165	15500	30	1254	3120	10	84
3	9590	10	259	17700	30	1431	1800	10	49
4	11400	20	615	17000	30	1375	3830	10	103
5	7440	10	201	6760	10	182	3060	10	82
6	11500	20	620	2440	10	66	1750	10	47
7	26100	40	2815	9970	10	269	1740	10	47
8	24000	40	2588	16600	30	1343	4660	10	126
9	13400	30	1084	12200	20	658	8070	10	218
10	2480	10	67	11700	20	631	4780	10	129
11	4240	10	114	10900	10	294	7550	10	203
12	11200	20	604	6040	10	163	8090	10	218
13	16000	30	1294	4240	10	114	12900	20	696
14	25100	40	2707	5760	10	155	12000	20	647
15	22100	40	2383	13700	30	1108	9770	10	263
16	3060	10	82	10500	10	283	10000	10	270
17	5150	10	139	10200	10	275	4390	10	118
18	10600	10	286	10800	10	291	7200	10	194
19	16500	30	1334	5180	10	140	13500	20	728
20	17400	30	1407	2590	10	70	11800	20	636
21	19800	40	2135	7290	10	197	12000	20	647
22	19400	40	2092	12500	20	674	7510	10	202
23	15100	30	1221	7630	10	206	6860	10	185
24	12200	20	658	1700	10	46	5880	10	159
25	20300	40	2189	6350	10	171	3870	10	104
26	17800	30	1440	6390	10	172	6020	10	162
27	16200	30	1310	2290	10	79	13200	30	1068
28	18900	30	1529	4000	10	108	15600	30	1262
29	15300	30	1237	4470	10	120	19600	40	2114
30	4660	10	126	2090	10	56	19200	40	2071
31	8540	10	230	1820	10	49	--	--	--
TOTAL	416470	--	33063	265810	--	14083	241110	--	12869

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.
(National radiochemical station)

LOCATION.--Lat 34°40'07", long 92°09'18", sec.35, T.1 N., R.11 W., Pulaski County, at upper end of upstream wall at David D. Terry Lock and Dam, 10.3 mi (16.6 km) downstream from Main Street bridge at Little Rock, and at mile 155.0 (249.4 km).

DRAINAGE AREA.--158,288 mi² (409,966 km²), of which 22,241 mi² (57,604 km²) is probably noncontributing.

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.
Water temperatures: October 1969 to September 1973.

REMARKS.--Discharge figures are for station 07263450, 16.8 mi (26.0 km) upstream.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS-SOLVED NITRITE (NO2) (MG/L)
OCT. 27...	32100	134	0	110	46	180	.11	--	.02	.0
NOV. 27...	89500	72	0	59	26	40	.38	1.7	.02	.0
DEC. 19...	45400	70	0	57	24	38	.38	1.7	.01	.0
JAN. 17...	49300	80	0	66	33	100	.54	2.4	.02	.0
FEB. 22...	57400	76	0	62	20	62	.56	2.5	--	--
APR. 10...	188000	84	0	69	35	90	.86	3.8	--	--
JUNE 08...	178000	82	0	67	44	53	.61	2.7	--	--
26...	67200	88	0	72	36	61	.22	1.0	--	--
JULY 11...	27400	82	0	67	28	45	.41	1.8	--	--
AUG. 29...	18000	--	--	--	--	--	.06	.30	.00	.0

DATE	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS-SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
OCT. 27...	.01	--	.28	.61	--	--	150	44	905
NOV. 27...	.00	.00	.25	.39	--	--	78	20	303
DEC. 19...	.00	.00	.00	.10	--	--	76	19	287
JAN. 17...	.18	.23	.65	.15	--	--	92	27	543
FEB. 22...	.06	.08	.36	.12	220	25	87	24	382
APR. 10...	.03	.04	.20	.20	--	--	100	32	401
JUNE 08...	.09	.12	.31	.15	230	100	100	33	403
26...	.00	.00	.02	.12	--	--	100	32	425
JULY 11...	.01	.01	.05	.12	--	--	91	24	350
AUG. 29...	--	--	--	.07	330	18	--	--	--

DATE	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 27...	8.0	10	16	--	2.1	44000	7000	410	11
NOV. 27...	7.7	60	26	2.1	2.3	24000	6200	160	--
DEC. 19...	7.8	40	7	1.9	1.8	36000	3300	250	--
JAN. 17...	7.8	45	16	1.6	2.0	80000	K2700	360	9.0
FEB. 22...	7.8	60	9	.9	1.9	51000	K51000	480	--
APR. 10...	7.8	100	20	3.0	2.1	16000	K670	160	--
JUNE 08...	7.6	40	7	2.7	3.3	6500	K1300	K20	--
26...	7.9	60	14	2.2	1.8	35000	K6300	130	--
JULY 11...	7.5	35	29	1.5	4.1	54000	9700	280	--
AUG. 29...	--	--	15	2.4	--	39000	--	150	--

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE-POSITS (UG/KG)	CHLOR-DANE (UG/L)	CHLOR-DANE IN BOTTOM DE-POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE-POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE-POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE-POSITS (UG/KG)	DI-AZINON (UG/L)
OCT. 27...	.00	.0	.0	0	.01	.0	.00	.0	.00	.0	.00

DATE	DI-ELDRIN (UG/L)	DI-ELDRIN IN BOTTOM DE-POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR (UG/L)	HEPTA-CHLOR IN BOTTOM DE-POSITS (UG/KG)	HEPTA-CHLOR EPOXIDE (UG/L)	HEPTA-CHLOR EPOXIDE IN BOT-TOM DE-POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE-POSITS (UG/KG)	MALA-THION (UG/L)
OCT. 27...	.00	.2	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE-POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE-POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE-POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE-POSITS (UG/KG)
OCT. 27...	.00	.00	.0	0	.00	.0	.01	.0	.00	.0

DATE	DIS-SOLVED GROSS ALPHA AS U-NAT. (UG/L)	SUS-PENDED GROSS ALPHA AS U-NAT. (UG/L)	DIS-SOLVED GROSS BETA AS CS-137 (PC/L)	SUS-PENDED GROSS BETA AS CS-137 (PC/L)	DIS-SOLVED GROSS BETA AS SR90/Y90 (PC/L)	SUS-PENDED GROSS BETA AS SR90/Y90 (PC/L)	DIS-SOLVED RA-226 (RADON METHOD) (PC/L)	DIS-SOLVED NATURAL URANIUM (U) (UG/L)	DIS-SOLVED URANIUM (U) (UG/L)
FEB. 22...	2.6	1.9	5.1	1.0	6.0	1.6	.06	.6	--
JUNE 08...	4.6	7.0	5.1	5.3	6.0	6.6	.06	--	.30
AUG. 25...	9.0	.6	6.0	.9	5.5	.0	.06	1.2	--

FIELD ANALYSES

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT. 27...	32100	--	--	--	890	8.3	15.0	9.1	90	--
NOV. 27...	89500	76	0	61	325	7.7	7.0	10.7	88	2.6
DEC. 19...	65400	68	0	56	308	7.6	3.5	11.6	85	1.7
JAN. 17...	49300	80	0	66	563	7.8	3.0	11.0	81	2.0
FEB. 22...	57400	76	0	61	389	7.9	5.5	11.6	90	1.5
APR. 10...	108000	80	0	69	495	8.0	12.0	9.9	91	1.3
JUNE 08...	178000	84	0	69	413	8.0	19.5	8.6	92	1.3
26...	67200	88	0	72	420	7.9	27.0	7.6	92	1.6
JULY 11...	27400	--	--	--	252	--	27.5	6.0	88	--
AUG. 25...	18000	110	4	104	551	8.6	29.0	7.9	98	.5

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	610	563	588	---	---	---	453	440	452
2	---	---	---	608	568	583	455	445	454	470	445	455
3	---	---	---	596	569	583	467	452	458	452	442	447
4	---	---	---	610	580	593	470	465	467	449	434	441
5	---	---	---	617	577	588	477	472	476	471	426	442
6	---	---	---	613	583	592	499	470	485	432	412	421
7	---	---	---	590	574	586	496	486	490	436	409	416
8	---	---	---	582	575	578	499	489	493	421	401	411
9	635	600	621	586	571	576	496	481	489	433	413	421
10	637	562	601	583	563	571	490	468	487	430	400	416
11	676	610	635	576	549	562	550	405	468	440	410	421
12	620	565	586	555	541	544	370	293	332	441	396	416
13	611	561	580	---	---	---	315	240	286	410	380	404
14	618	558	591	---	---	---	365	280	332	399	376	385
15	614	569	590	---	---	---	376	281	332	390	375	382
16	596	561	580	---	---	---	342	322	332	391	366	377
17	612	572	589	---	---	---	363	333	347	380	353	367
18	599	556	583	---	---	---	478	363	416	394	366	379
19	605	555	585	---	---	---	534	479	513	405	375	390
20	602	562	585	---	---	---	530	480	506	415	385	396
21	663	568	587	---	---	---	520	485	506	391	381	387
22	665	585	615	---	---	---	487	452	471	416	386	396
23	695	658	679	---	---	---	449	414	420	442	397	415
24	703	660	683	---	---	---	415	400	405	437	397	412
25	711	661	689	---	---	---	422	397	406	398	370	387
26	679	620	662	---	---	---	429	396	418	403	368	386
27	632	597	619	---	---	---	476	371	469	383	373	377
28	626	551	604	---	---	---	470	463	469	376	369	373
29	619	576	595	---	---	---	486	459	473	379	369	376
30	602	557	582	---	---	---	496	466	470	400	372	380
31	595	568	577	---	---	---	463	421	463	405	365	381
MONTH	---	---	---	---	---	---	552	240	437	471	353	404

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	390	380	385	675	588	632	---	---	---	551	451	525
2	396	371	384	595	575	585	---	---	---	530	495	523
3	390	373	386	593	570	585	---	---	---	---	---	---
4	434	396	414	592	577	587	---	---	---	---	---	---
5	450	420	435	595	568	580	---	---	---	---	---	---
6	460	446	457	623	578	588	---	---	---	---	---	---
7	473	453	463	617	582	597	---	---	---	---	---	---
8	506	464	491	590	565	583	---	---	---	---	---	---
9	510	485	498	590	565	575	---	---	---	---	---	---
10	477	452	460	596	556	577	---	---	---	---	---	---
11	468	413	449	577	552	561	---	---	---	---	---	---
12	435	385	423	558	538	547	---	---	---	---	---	---
13	416	356	397	553	508	535	---	---	---	---	---	---
14	398	360	383	536	499	518	---	---	---	---	---	---
15	376	344	359	535	475	499	---	---	---	---	---	---
16	321	251	303	---	---	---	---	---	---	---	---	---
17	272	242	261	---	---	---	---	---	---	---	---	---
18	256	204	235	---	---	---	---	---	---	---	---	---
19	270	215	243	---	---	---	---	---	---	---	---	---
20	472	237	311	---	---	---	---	---	---	---	---	---
21	603	463	537	---	---	---	---	---	---	---	---	---
22	625	435	609	---	---	---	---	---	---	---	---	---
23	630	610	621	---	---	---	---	---	---	---	---	---
24	619	614	616	---	---	---	---	---	---	---	---	---
25	614	596	606	---	---	---	---	---	---	---	---	---
26	608	593	598	---	---	---	---	---	---	---	---	---
27	612	582	593	---	---	---	---	---	---	---	---	---
28	616	581	595	---	---	---	---	---	---	---	---	---
29	611	576	591	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	582	527	558	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	630	204	452	---	---	---	---	---	---	---	---	---

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark--continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	430	395	414	---	---	---	---	---	---	---	---	---
20	439	370	400	---	---	---	---	---	---	---	---	---
21	463	398	419	---	---	---	---	---	---	---	---	---
22	446	401	420	---	---	---	---	---	---	---	---	---
23	485	425	456	---	---	---	---	---	---	---	---	---
24	536	459	490	---	---	---	---	---	---	935	910	932
25	553	480	519	---	---	---	---	---	---	930	925	926
26	586	516	569	---	---	---	---	---	---	925	920	922
27	580	560	569	---	---	---	---	---	---	920	910	915
28	---	---	---	---	---	---	---	---	---	920	900	908
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	842	822	833	---	---	---	---	---	---
2	---	---	---	848	793	814	---	---	---	---	---	---
3	---	---	---	862	815	842	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	793	763	769	---	---	---	---	---	---
13	---	---	---	695	555	617	---	---	---	---	---	---
14	---	---	---	532	442	486	---	---	---	---	---	---
15	---	---	---	444	374	421	---	---	---	---	---	---
16	---	---	---	355	265	311	---	---	---	---	---	---
17	865	855	861	277	262	268	---	---	---	---	---	---
18	861	851	856	---	---	---	---	---	---	---	---	---
19	851	841	846	---	---	---	---	---	---	---	---	---
20	842	832	838	---	---	---	---	---	---	---	---	---
21	842	837	838	---	---	---	---	---	---	---	---	---
22	838	828	834	---	---	---	---	---	---	---	---	---
23	833	813	824	---	---	---	---	---	---	---	---	---
24	819	806	814	---	---	---	---	---	---	---	---	---
25	824	809	817	---	---	---	---	---	---	---	---	---
26	820	810	816	---	---	---	---	---	---	---	---	---
27	905	808	867	---	---	---	---	---	---	---	---	---
28	915	890	901	---	---	---	---	---	---	---	---	---
29	927	902	919	---	---	---	---	---	---	---	---	---
30	928	913	924	---	---	---	---	---	---	---	---	---
31	920	880	902	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--continued

PH, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.1	7.7	7.9	7.8	7.3	7.6	---	---	---	8.9	8.7	8.8
2	8.0	7.7	7.9	7.5	6.8	7.1	---	---	---	8.8	8.1	8.5
3	8.0	7.6	7.9	7.1	7.0	7.0	---	---	---	8.7	8.1	8.4
4	7.9	7.6	7.8	7.1	7.1	7.1	---	---	---	8.6	7.6	8.1
5	7.6	7.3	7.5	7.2	7.1	7.2	---	---	---	7.5	6.9	7.3
6	7.9	7.7	7.8	7.3	7.2	7.3	---	---	---	7.3	7.1	7.2
7	7.8	7.6	7.7	7.4	7.3	7.3	---	---	---	7.2	6.8	7.1
8	8.3	7.8	8.0	7.4	7.3	7.4	---	---	---	8.6	7.1	7.5
9	8.2	7.9	8.0	7.4	7.4	7.4	---	---	---	8.6	8.1	8.3
10	7.9	7.9	7.9	7.5	7.3	7.4	---	---	---	8.2	7.6	7.8
11	7.9	7.8	7.9	7.6	7.5	7.5	---	---	---	7.5	6.0	6.9
12	8.0	7.7	7.8	7.7	7.6	7.6	7.9	7.5	7.7	7.0	6.1	6.6
13	8.0	7.7	7.8	---	---	---	7.9	7.7	7.8	7.5	6.3	6.8
14	7.9	7.6	7.7	---	---	---	8.6	7.9	8.3	6.5	6.1	6.3
15	7.9	7.6	7.8	---	---	---	8.4	7.8	8.2	6.6	6.2	6.3
16	8.2	7.8	8.0	---	---	---	8.0	7.4	7.7	6.3	6.1	6.2
17	8.3	7.9	8.1	---	---	---	7.5	6.9	7.2	6.2	5.9	6.1
18	8.1	7.8	8.0	---	---	---	7.0	6.6	6.8	7.8	6.1	7.0
19	8.0	7.7	7.8	---	---	---	7.5	6.8	7.0	8.6	7.7	8.2
20	7.8	7.1	7.4	---	---	---	7.7	7.4	7.6	8.7	8.4	8.6
21	7.5	7.1	7.3	---	---	---	7.8	7.3	7.6	9.1	8.8	9.0
22	7.5	7.1	7.2	---	---	---	7.4	7.0	7.2	9.3	9.1	9.2
23	7.6	7.3	7.5	---	---	---	7.8	7.3	7.6	9.5	9.1	9.3
24	7.6	7.2	7.4	---	---	---	8.2	7.9	8.1	9.5	7.3	8.7
25	7.6	7.1	7.4	---	---	---	8.4	8.2	8.3	7.5	7.2	7.4
26	7.6	7.0	7.3	---	---	---	8.5	8.3	8.4	7.4	7.2	7.3
27	7.3	6.9	7.1	---	---	---	8.7	8.5	8.6	7.8	7.5	7.6
28	7.5	7.2	7.3	---	---	---	8.8	8.0	8.4	7.9	7.7	7.8
29	7.7	6.9	7.3	---	---	---	8.9	8.1	8.3	7.9	7.8	7.9
30	7.5	6.9	7.3	---	---	---	8.9	7.7	8.4	8.0	7.6	7.9
31	7.4	7.0	7.2	---	---	---	8.7	7.9	8.2	8.1	7.8	8.0
MONTH	8.3	6.9	7.6	---	---	---	---	---	---	9.5	5.9	7.7

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.4	8.1	8.3	8.7	8.3	8.6	8.2	7.9	8.1	7.8	7.5	7.7
2	8.5	8.3	8.4	8.3	7.6	7.8	8.4	8.2	8.3	7.6	7.6	7.6
3	8.3	8.1	8.1	8.0	7.8	7.9	8.4	8.3	8.3	---	---	---
4	8.2	7.8	8.1	8.5	8.0	8.3	8.6	8.4	8.4	---	---	---
5	8.2	7.9	8.0	8.5	8.3	8.4	8.7	8.3	8.5	---	---	---
6	9.1	8.0	8.4	8.7	8.5	8.6	9.1	8.4	8.6	---	---	---
7	8.3	8.0	8.1	9.5	8.7	9.2	8.8	8.2	8.6	---	---	---
8	8.1	7.7	8.0	9.3	9.1	9.2	8.3	8.1	8.2	---	---	---
9	8.0	7.8	7.9	9.1	8.4	8.6	8.1	8.0	8.1	---	---	---
10	8.0	7.9	8.0	8.5	8.2	8.4	8.1	7.8	7.9	---	---	---
11	8.1	7.7	7.9	8.6	8.3	8.4	8.2	8.0	8.1	8.4	8.0	8.3
12	8.1	7.9	8.0	8.7	8.2	8.4	8.2	7.9	8.0	8.5	8.3	8.4
13	8.1	7.9	8.0	8.8	8.2	8.4	8.4	8.0	8.2	8.4	8.1	8.3
14	8.1	7.8	7.9	8.3	8.0	8.1	8.1	7.9	8.1	8.3	8.1	8.2
15	8.1	8.0	8.1	8.7	8.0	8.3	8.1	7.9	8.0	8.4	8.1	8.3
16	8.2	8.1	8.1	8.7	8.3	8.4	8.1	7.9	8.0	8.5	8.1	8.2
17	8.2	8.1	8.2	8.5	8.2	8.3	8.2	7.9	8.0	8.4	8.3	8.4
18	8.3	8.1	8.2	8.5	8.2	8.4	8.1	7.9	8.1	8.4	8.2	8.3
19	8.3	8.1	8.3	8.4	8.1	8.3	8.2	8.0	8.2	8.2	8.0	8.1
20	8.3	8.2	8.2	8.3	8.1	8.2	8.3	8.1	8.2	8.1	7.9	8.0
21	8.3	8.1	8.2	8.5	8.1	8.3	8.3	8.0	8.2	8.1	8.0	8.1
22	8.4	8.2	8.2	8.1	7.9	8.0	8.1	7.9	8.0	8.3	8.1	8.1
23	8.8	7.9	8.3	8.0	7.8	7.9	7.9	7.6	7.8	8.2	8.0	8.1
24	9.2	8.7	8.9	7.9	7.8	7.8	7.8	7.6	7.7	8.3	8.1	8.2
25	9.2	8.6	8.9	7.8	7.5	7.6	8.1	7.8	7.9	8.3	8.2	8.3
26	9.0	8.1	8.4	7.7	7.5	7.6	8.1	7.9	8.0	---	---	---
27	8.3	7.8	8.0	8.4	7.4	7.7	8.0	7.9	7.9	---	---	---
28	8.0	7.7	7.9	7.6	7.4	7.5	8.1	7.8	7.9	---	---	---
29	8.6	7.8	8.3	7.6	7.2	7.3	8.1	7.8	8.0	---	---	---
30	---	---	---	7.6	7.4	7.5	7.9	7.4	7.7	---	---	---
31	---	---	---	7.9	7.7	7.8	---	---	---	---	---	---
MONTH	9.2	7.7	8.2	9.5	7.2	8.2	9.1	7.4	8.1	---	---	---

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--continued

PH, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	8.0	7.6	7.8
2	---	---	---	---	---	---	---	---	---	8.1	7.7	7.8
3	---	---	---	---	---	---	---	---	---	8.0	7.8	8.0
4	---	---	---	---	---	---	---	---	---	8.0	7.8	7.9
5	---	---	---	---	---	---	---	---	---	8.2	7.8	8.0
6	---	---	---	---	---	---	---	---	---	8.1	7.8	8.0
7	---	---	---	---	---	---	---	---	---	8.2	8.0	8.1
8	---	---	---	---	---	---	---	---	---	9.0	8.3	8.7
9	---	---	---	---	---	---	---	---	---	8.7	8.4	8.5
10	---	---	---	8.1	7.9	8.0	8.1	7.6	7.8	9.0	8.5	8.7
11	---	---	---	8.4	7.8	8.1	7.8	7.7	7.8	8.9	8.5	8.7
12	---	---	---	8.4	7.9	8.1	8.0	7.8	7.9	8.7	8.5	8.7
13	---	---	---	8.2	7.8	8.0	8.2	7.8	8.0	8.9	8.0	8.7
14	---	---	---	8.2	7.8	8.1	8.2	7.9	8.0	---	---	---
15	---	---	---	8.2	8.0	8.1	8.0	7.7	7.9	---	---	---
16	---	---	---	8.2	8.0	8.1	8.0	7.9	8.0	---	---	---
17	---	---	---	8.1	7.8	8.0	8.1	8.0	8.0	---	---	---
18	---	---	---	8.1	7.8	7.9	8.3	8.0	8.1	---	---	---
19	---	---	---	8.0	7.8	7.9	8.5	8.0	8.2	---	---	---
20	---	---	---	7.9	7.7	7.8	8.5	8.0	8.3	---	---	---
21	---	---	---	7.8	7.6	7.8	8.4	7.7	8.1	---	---	---
22	---	---	---	7.8	7.6	7.7	8.0	7.8	7.9	8.1	7.1	7.3
23	---	---	---	7.8	7.5	7.7	8.7	7.7	8.1	7.6	7.2	7.3
24	---	---	---	8.3	8.1	8.2	8.2	7.6	7.7	7.9	7.3	7.4
25	---	---	---	---	---	---	8.8	7.7	8.0	7.6	7.3	7.4
26	---	---	---	---	---	---	8.4	7.8	8.1	7.5	7.1	7.4
27	---	---	---	---	---	---	8.2	7.8	8.0	7.5	7.3	7.4
28	---	---	---	---	---	---	8.1	7.7	7.9	7.6	7.4	7.5
29	---	---	---	---	---	---	8.5	7.7	8.0	8.4	7.5	8.0
30	---	---	---	---	---	---	8.5	7.8	8.1	8.4	8.2	8.3
31	---	---	---	---	---	---	8.1	7.7	7.9	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

PH, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.4	8.2	8.3	---	---	---	7.9	7.6	7.8	---	---	---
2	8.5	8.2	8.3	8.5	7.4	7.6	7.9	7.6	7.8	---	---	---
3	8.6	8.2	8.4	7.8	7.6	7.7	9.1	7.8	8.6	---	---	---
4	8.8	8.2	8.5	---	---	---	8.2	7.8	7.9	---	---	---
5	8.7	8.2	8.4	---	---	---	8.6	7.9	8.3	---	---	---
6	8.5	8.2	8.4	---	---	---	8.1	7.8	7.9	---	---	---
7	8.4	8.3	8.3	---	---	---	7.9	7.9	7.9	---	---	---
8	8.7	8.2	8.4	---	---	---	---	---	---	---	---	---
9	8.8	8.3	8.5	---	---	---	---	---	---	---	---	---
10	8.7	8.2	8.4	8.1	7.9	8.0	---	---	---	---	---	---
11	8.6	8.2	8.4	8.0	7.8	7.9	---	---	---	---	---	---
12	8.7	8.1	8.3	7.9	7.7	7.8	---	---	---	---	---	---
13	8.6	8.2	8.3	9.1	7.6	8.0	---	---	---	---	---	---
14	8.4	8.2	8.3	7.7	7.6	7.7	---	---	---	---	---	---
15	8.3	8.2	8.3	7.7	7.6	7.7	---	---	---	---	---	---
16	8.6	8.2	8.3	7.7	7.6	7.6	---	---	---	---	---	---
17	8.3	8.1	8.2	7.6	7.1	7.4	---	---	---	---	---	---
18	8.3	8.2	8.3	7.3	7.2	7.2	---	---	---	---	---	---
19	8.4	8.2	8.3	7.3	7.2	7.2	8.4	6.6	7.0	---	---	---
20	8.4	8.3	8.3	7.4	7.3	7.3	7.2	6.9	7.1	---	---	---
21	8.3	8.3	8.3	7.5	7.4	7.4	7.9	7.1	7.4	---	---	---
22	8.7	8.2	8.4	7.5	7.4	7.5	7.3	7.1	7.2	---	---	---
23	8.7	8.3	8.3	7.5	7.3	7.4	7.3	7.1	7.2	---	---	---
24	8.3	8.2	8.2	7.7	7.5	7.6	7.6	7.2	7.3	---	---	---
25	8.4	8.2	8.3	7.7	7.5	7.6	7.6	7.2	7.4	---	---	---
26	8.4	8.3	8.3	7.7	7.5	7.6	7.5	7.3	7.4	---	---	---
27	8.4	8.3	8.4	7.7	7.5	7.6	7.6	7.2	7.5	---	---	---
28	8.3	8.1	8.2	7.8	7.6	7.8	7.6	7.4	7.5	---	---	---
29	8.4	8.0	8.2	8.0	7.8	7.9	7.8	7.6	7.6	---	---	---
30	8.3	8.1	8.2	7.9	7.8	7.9	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.8	8.0	8.3	---	---	---	---	---	---	---	---	---

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--continued

PH, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	8.1	7.6	7.8	---	---	---
3	---	---	---	---	---	---	8.5	7.8	8.0	---	---	---
4	---	---	---	---	---	---	8.3	7.8	7.9	---	---	---
5	---	---	---	---	---	---	8.1	7.6	7.9	---	---	---
6	---	---	---	---	---	---	7.9	7.7	7.8	---	---	---
7	---	---	---	---	---	---	8.9	7.9	8.5	---	---	---
8	---	---	---	---	---	---	9.3	7.8	8.6	---	---	---
9	---	---	---	---	---	---	8.7	8.0	8.1	---	---	---
10	---	---	---	---	---	---	8.1	8.0	8.1	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	7.3	6.7	7.0	8.6	7.8	8.1	---	---	---	9.9	9.6	9.8
2	7.4	6.8	7.1	8.5	8.1	8.3	---	---	---	10.1	9.5	9.7
3	8.4	6.7	7.1	.7	8.1	8.4	---	---	---	10.0	9.2	9.6
4	7.0	6.4	6.8	8.7	8.2	8.4	---	---	---	9.7	8.8	9.2
5	6.7	6.0	6.3	8.8	8.3	8.5	---	---	---	11.1	9.0	9.6
6	6.6	6.3	6.4	8.7	8.4	8.5	---	---	---	9.6	9.0	9.2
7	6.7	6.2	6.4	8.6	8.2	8.4	---	---	---	9.6	8.8	9.1
8	6.6	5.7	6.2	8.5	8.2	8.4	---	---	---	9.4	8.7	8.9
9	7.0	6.1	6.6	8.6	8.0	8.3	---	---	---	9.9	8.9	9.6
10	6.9	6.6	6.8	8.6	8.1	8.3	---	---	---	10.4	9.7	10.0
11	7.3	6.1	6.8	9.1	8.2	8.5	---	---	---	9.7	8.9	9.3
12	6.8	6.1	6.5	8.7	8.2	8.5	---	---	---	9.5	9.0	9.2
13	7.2	6.6	6.9	---	---	---	8.7	8.4	8.6	10.3	8.9	9.4
14	6.9	6.4	6.7	---	---	---	10.0	8.7	9.1	9.4	9.1	9.2
15	6.9	6.4	6.7	---	---	---	9.8	8.9	9.2	10.5	9.3	9.7
16	6.9	5.4	6.2	---	---	---	9.1	8.9	9.0	10.4	9.8	10.1
17	6.4	5.9	6.1	---	---	---	9.1	8.6	8.8	10.8	10.2	10.5
18	6.2	5.4	5.8	---	---	---	9.0	8.6	8.8	11.9	10.6	11.2
19	6.5	5.5	6.1	---	---	---	9.4	8.8	9.0	12.0	11.7	11.9
20	6.8	6.0	6.4	---	---	---	9.9	9.5	9.7	11.0	9.8	10.3
21	7.0	6.2	6.7	---	---	---	---	---	---	10.7	10.2	10.4
22	7.6	7.1	7.3	---	---	---	---	---	---	---	---	---
23	7.7	7.3	7.5	---	---	---	---	---	---	---	---	---
24	8.0	7.5	7.7	---	---	---	---	---	---	---	---	---
25	8.6	7.8	8.2	---	---	---	---	---	---	8.5	8.2	8.3
26	8.9	8.3	8.6	---	---	---	---	---	---	9.0	8.5	8.8
27	8.8	8.5	8.6	---	---	---	---	---	---	9.3	9.0	9.1
28	8.6	8.3	8.4	---	---	---	---	---	---	9.7	9.4	9.5
29	8.5	7.9	8.2	---	---	---	---	---	---	10.0	9.7	9.9
30	8.5	8.0	8.2	---	---	---	---	---	---	10.5	10.2	10.3
31	8.5	7.9	8.1	---	---	---	10.0	9.5	9.7	12.1	10.5	10.9
MONTH	8.9	5.4	7.0	---	---	---	---	---	---	12.1	8.2	9.7

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	13.6	12.3	13.2	9.9	6.6	8.5	10.5	9.6	10.1	8.0	7.7	7.9
2	13.6	12.2	13.1	6.6	5.8	6.1	10.6	9.8	10.1	8.2	8.0	8.1
3	12.0	10.7	11.0	7.4	6.7	7.2	9.9	9.2	9.6	---	---	---
4	11.8	11.2	11.5	8.4	7.9	8.1	9.5	9.0	9.2	---	---	---
5	12.0	11.5	11.8	8.7	7.9	8.3	9.3	8.9	9.1	---	---	---
6	---	---	---	8.9	8.7	8.8	9.2	8.9	9.0	---	---	---
7	12.7	11.9	12.1	11.9	8.9	10.9	9.2	8.6	9.1	---	---	---
8	12.7	12.1	12.3	11.6	10.1	10.7	8.9	8.6	8.7	---	---	---
9	12.7	12.4	12.5	11.1	10.3	10.7	9.0	8.6	8.7	---	---	---
10	12.7	12.4	12.5	11.3	10.5	10.9	9.2	8.5	8.6	---	---	---
11	12.7	12.4	12.5	11.2	10.7	10.9	8.6	8.2	8.4	8.2	7.5	7.9
12	12.4	11.9	12.2	10.6	10.2	10.4	8.5	8.0	8.2	7.2	6.8	7.0
13	12.2	11.9	12.0	10.2	9.8	10.0	8.5	8.1	8.3	7.8	6.4	7.2
14	12.3	11.8	12.0	9.8	9.3	9.5	9.4	7.5	8.2	7.7	6.7	7.2
15	12.0	11.6	11.8	9.6	9.1	9.3	7.6	7.3	7.5	8.1	6.7	7.3
16	11.8	11.4	11.5	9.7	9.2	9.5	7.4	7.0	7.2	7.8	6.7	7.3
17	11.7	11.3	11.5	10.2	9.4	9.7	7.5	6.8	7.0	7.6	6.7	7.1
18	11.5	11.2	11.4	10.6	9.7	10.1	7.4	6.8	7.1	7.5	6.8	7.1
19	12.0	11.2	11.5	10.4	9.9	10.2	7.2	6.6	7.0	6.9	6.5	6.7
20	11.5	11.3	11.4	10.6	9.8	10.2	6.8	6.5	6.6	6.8	6.2	6.5
21	13.1	11.5	12.1	10.9	10.0	10.4	6.7	6.4	6.6	7.2	6.2	6.7
22	12.5	10.7	11.4	10.3	9.4	9.9	6.9	6.3	6.6	7.6	6.6	7.0
23	---	---	---	9.8	9.4	9.6	6.9	6.5	6.7	7.4	6.6	7.0
24	---	---	---	9.6	9.2	9.4	6.8	6.0	6.5	7.7	6.9	7.2
25	---	---	---	9.6	9.0	9.2	6.6	5.9	6.3	7.5	7.2	7.3
26	---	---	---	9.3	9.0	9.2	6.5	6.3	6.4	---	---	---
27	---	---	---	9.7	8.7	9.2	7.0	6.7	6.8	---	---	---
28	---	---	---	9.2	8.7	9.0	7.4	7.0	7.1	---	---	---
29	---	---	---	9.4	8.6	9.0	7.6	7.0	7.4	---	---	---
30	---	---	---	9.8	9.1	9.5	7.8	7.4	7.6	---	---	---
31	---	---	---	10.5	9.5	10.0	---	---	---	---	---	---
MONTH	---	---	---	11.9	5.8	9.5	10.6	5.9	7.9	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	6.7	5.3	6.2
2	---	---	---	---	---	---	---	---	---	6.5	4.9	5.6
3	---	---	---	---	---	---	---	---	---	6.0	5.1	5.6
4	---	---	---	---	---	---	---	---	---	5.8	4.5	5.1
5	---	---	---	---	---	---	---	---	---	6.5	4.8	5.3
6	---	---	---	---	---	---	---	---	---	6.2	4.9	5.6
7	---	---	---	---	---	---	---	---	---	6.9	5.2	5.8
8	---	---	---	---	---	---	---	---	---	8.8	5.8	7.4
9	---	---	---	---	---	---	---	---	---	7.0	5.7	6.2
10	---	---	---	---	---	---	6.0	5.5	5.7	6.3	4.3	5.4
11	---	---	---	---	---	---	6.4	5.4	5.7	---	---	---
12	---	---	---	---	---	---	6.5	5.1	5.7	---	---	---
13	---	---	---	---	---	---	7.0	4.9	5.9	5.3	4.3	4.9
14	---	---	---	---	---	---	6.3	5.1	5.6	---	---	---
15	---	---	---	---	---	---	6.0	4.8	5.2	---	---	---
16	---	---	---	---	---	---	5.6	4.5	5.1	---	---	---
17	---	---	---	---	---	---	6.1	4.8	5.2	---	---	---
18	---	---	---	---	---	---	5.3	4.0	4.7	---	---	---
19	---	---	---	---	---	---	6.3	4.7	5.3	---	---	---
20	---	---	---	---	---	---	7.2	5.2	6.3	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	6.9	6.5	6.7
23	---	---	---	---	---	---	---	---	---	7.6	6.7	7.0
24	---	---	---	---	---	---	---	---	---	6.9	6.3	6.6
25	---	---	---	---	---	---	---	---	---	6.5	5.8	6.1
26	---	---	---	---	---	---	---	---	---	6.5	5.6	5.9
27	---	---	---	---	---	---	---	---	---	6.2	5.5	5.8
28	---	---	---	---	---	---	---	---	---	5.7	5.4	5.5
29	---	---	---	---	---	---	---	---	---	5.7	4.4	5.3
30	---	---	---	---	---	---	7.9	6.9	7.5	5.2	4.3	5.0
31	---	---	---	---	---	---	7.7	6.4	7.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.- continued

DISSOLVED OXYGEN (MG/L), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.4	6.0	6.2	8.7	7.1	7.7	10.6	10.2	10.4	---	---	---
2	6.4	6.0	6.2	8.0	7.2	7.6	10.6	10.3	10.4	---	---	---
3	6.6	6.1	6.3	8.4	7.6	8.0	10.4	10.1	10.3	---	---	---
4	6.8	6.2	6.4	---	---	---	10.1	9.8	10.0	---	---	---
5	7.0	6.5	6.7	---	---	---	10.3	9.8	10.1	---	---	---
6	6.5	5.5	5.9	---	---	---	10.2	9.7	10.0	---	---	---
7	5.6	5.4	5.5	---	---	---	10.4	10.1	10.3	---	---	---
8	6.0	5.4	5.7	---	---	---	---	---	---	---	---	---
9	6.2	5.6	5.9	---	---	---	---	---	---	---	---	---
10	6.2	5.7	5.9	10.7	9.6	10.2	---	---	---	---	---	---
11	6.3	5.8	6.1	10.5	9.5	9.8	---	---	---	---	---	---
12	6.3	5.8	6.1	9.9	9.4	9.6	---	---	---	---	---	---
13	6.3	5.9	6.1	9.7	8.5	9.1	---	---	---	---	---	---
14	6.2	5.9	6.1	8.9	8.5	8.7	---	---	---	---	---	---
15	6.4	5.8	6.1	9.7	9.0	9.4	---	---	---	---	---	---
16	6.5	5.9	6.1	9.8	9.6	9.7	---	---	---	---	---	---
17	5.3	5.1	5.2	9.8	9.0	9.4	---	---	---	---	---	---
18	5.4	4.8	5.2	9.7	9.6	9.6	---	---	---	---	---	---
19	6.1	5.1	5.6	9.9	9.7	9.8	11.1	10.1	10.7	---	---	---
20	6.8	6.1	6.5	10.0	9.9	10.0	11.2	10.9	11.1	---	---	---
21	7.3	6.2	6.7	10.1	10.0	10.1	10.9	10.7	10.8	---	---	---
22	7.4	6.7	7.0	10.4	10.2	10.3	10.9	10.8	10.8	---	---	---
23	7.9	7.3	7.6	10.6	10.3	10.4	11.1	10.9	10.9	---	---	---
24	8.3	8.0	8.1	10.5	10.3	10.4	11.1	10.9	10.9	---	---	---
25	9.1	8.6	8.8	10.5	10.4	10.4	11.2	10.8	11.0	---	---	---
26	9.3	8.6	9.0	10.8	10.5	10.6	11.1	10.8	10.9	---	---	---
27	9.3	8.8	9.1	10.9	10.4	10.7	11.3	10.8	11.0	---	---	---
28	8.8	8.4	8.6	10.5	10.0	10.3	11.1	10.9	11.0	---	---	---
29	9.0	8.3	8.6	10.2	10.0	10.1	11.0	10.9	11.0	---	---	---
30	8.4	8.0	8.2	10.3	10.1	10.2	---	---	---	---	---	---
31	8.0	7.3	7.7	---	---	---	---	---	---	---	---	---
MONTH	9.3	4.8	6.7	10.9	7.1	9.7	---	---	---	---	---	---

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	11.0	9.3	10.2	---	---	---
3	---	---	---	---	---	---	10.8	10.1	10.5	---	---	---
4	---	---	---	---	---	---	10.3	9.8	10.2	---	---	---
5	---	---	---	---	---	---	10.7	10.0	10.4	---	---	---
6	---	---	---	---	---	---	10.4	10.2	10.3	---	---	---
7	---	---	---	---	---	---	10.0	9.3	9.6	---	---	---
8	---	---	---	---	---	---	10.1	9.1	9.6	---	---	---
9	---	---	---	---	---	---	9.8	9.5	9.7	---	---	---
10	---	---	---	---	---	---	10.1	9.8	9.9	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--continued

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	25.0	25.0	25.0	21.0	21.0	21.0	10.0	9.5	9.5	10.5	10.0	10.0
2	25.0	25.0	25.0	21.0	20.5	21.0	9.0	9.0	9.0	10.5	10.0	10.0
3	25.5	24.5	25.0	20.5	19.0	20.0	9.0	9.0	9.0	10.0	10.0	10.0
4	25.0	24.0	24.5	19.0	18.5	19.0	9.0	8.5	8.5	10.0	8.5	9.5
5	24.0	23.5	24.0	18.5	18.0	18.0	9.0	8.5	9.0	8.5	7.5	8.0
6	23.5	22.5	23.0	18.0	16.5	17.5	9.0	9.0	9.0	7.5	7.0	7.5
7	23.0	22.0	22.5	16.5	15.0	16.0	9.0	9.0	9.0	7.5	7.0	7.0
8	22.0	21.5	22.0	15.5	14.5	15.0	9.0	9.0	9.0	8.0	7.0	7.0
9	21.5	21.0	21.5	15.0	14.5	14.5	10.0	9.0	9.5	8.5	7.5	8.0
10	21.0	20.5	20.5	15.0	14.5	14.5	10.5	10.0	10.5	8.5	8.0	8.0
11	20.5	20.0	20.5	15.5	14.0	14.5	11.0	9.5	10.0	8.5	8.0	8.0
12	20.5	20.0	20.0	15.0	14.5	14.5	11.5	10.5	11.0	8.5	8.0	8.0
13	21.0	20.0	20.5	---	---	---	11.0	11.0	11.0	9.0	8.0	8.5
14	21.0	20.5	20.5	---	---	---	11.5	10.5	11.0	8.0	7.0	7.5
15	21.5	20.5	21.0	---	---	---	11.5	11.0	11.0	7.0	5.5	6.0
16	21.5	21.0	21.0	---	---	---	11.0	10.5	11.0	5.5	4.5	5.0
17	21.5	21.0	21.5	---	---	---	11.0	10.5	10.5	5.0	4.5	4.5
18	22.0	21.5	21.5	---	---	---	10.5	10.0	10.0	6.0	5.0	5.5
19	22.0	22.0	22.0	---	---	---	10.0	9.5	10.0	7.0	6.0	6.5
20	22.0	22.0	22.0	---	---	---	10.5	10.0	10.0	7.5	7.0	7.0
21	22.0	22.0	22.0	---	---	---	10.5	10.0	10.0	7.5	7.5	7.5
22	22.0	22.0	22.0	---	---	---	10.5	10.0	10.0	7.5	7.5	7.5
23	---	---	---	---	---	---	10.0	10.0	10.0	8.5	7.5	8.0
24	---	---	---	---	---	---	10.0	10.0	10.0	9.5	8.0	9.0
25	---	---	---	---	---	---	10.5	10.0	10.0	9.0	8.0	8.5
26	---	---	---	---	---	---	11.0	10.0	10.5	8.0	7.5	7.5
27	---	---	---	---	---	---	11.5	11.0	11.0	8.0	7.5	7.5
28	---	---	---	---	---	---	11.5	11.0	11.0	7.5	6.5	7.0
29	---	---	---	---	---	---	11.0	11.0	11.0	6.5	6.0	6.0
30	---	---	---	---	---	---	11.5	11.0	11.5	6.0	6.0	6.0
31	---	---	---	---	---	---	11.0	10.5	10.5	7.0	5.5	6.0
MONTH	---	---	---	---	---	---	11.5	8.5	10.0	10.5	4.5	7.5

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	6.5	6.5	6.5	11.5	11.0	11.0	14.5	13.5	14.0	---	---	---
2	6.5	6.5	6.5	11.5	11.0	11.0	15.0	13.5	14.0	---	---	---
3	6.5	5.5	6.0	10.5	10.0	10.5	15.0	14.0	14.5	---	---	---
4	5.5	5.0	5.5	10.0	10.0	10.0	14.5	14.0	14.0	---	---	---
5	5.5	5.0	5.5	10.5	9.5	10.0	15.0	14.0	14.5	---	---	---
6	6.0	5.5	5.5	10.5	9.5	10.0	16.0	15.0	15.5	---	---	---
7	6.0	5.5	5.5	11.0	10.5	11.0	18.0	16.0	17.0	---	---	---
8	6.0	5.0	5.5	11.0	10.5	10.5	16.5	16.0	16.0	---	---	---
9	6.5	5.5	6.0	11.0	10.5	11.0	16.0	15.5	15.5	---	---	---
10	6.0	6.0	6.0	11.5	10.5	11.0	16.5	15.0	16.0	---	---	---
11	6.5	6.0	6.5	12.5	11.0	12.0	17.5	16.0	16.5	18.5	17.5	18.0
12	7.0	6.5	6.5	13.5	12.0	13.0	18.0	17.0	17.5	18.5	18.0	18.0
13	7.0	6.5	6.5	14.5	13.0	13.5	---	---	---	19.5	18.0	19.0
14	8.0	6.5	7.0	14.0	13.5	13.5	---	---	---	20.0	19.0	19.5
15	8.5	8.0	8.0	15.0	13.5	14.0	---	---	---	21.0	19.5	20.0
16	8.5	8.0	8.0	14.5	14.0	14.5	---	---	---	22.0	20.0	21.0
17	8.5	8.0	8.5	15.0	14.0	14.0	---	---	---	23.0	21.5	22.5
18	8.5	8.0	8.0	15.0	14.0	14.5	---	---	---	23.5	22.5	23.0
19	8.0	7.5	7.5	15.0	14.5	14.0	---	---	---	25.0	23.5	24.0
20	7.5	7.5	7.5	15.5	14.5	15.0	---	---	---	25.5	24.0	24.5
21	8.5	7.5	8.0	17.0	15.5	16.0	---	---	---	26.0	24.5	25.0
22	8.5	8.0	8.0	17.0	15.5	16.0	---	---	---	26.0	24.5	25.0
23	9.0	8.0	8.5	16.0	15.5	16.0	---	---	---	25.5	24.5	25.0
24	9.5	8.5	9.0	15.5	15.0	15.5	---	---	---	25.5	24.5	25.0
25	9.5	9.0	9.0	15.0	14.5	14.5	---	---	---	25.0	25.0	25.0
26	9.5	9.0	9.0	14.5	14.0	14.0	---	---	---	---	---	---
27	10.0	9.0	9.5	15.5	14.0	14.5	---	---	---	---	---	---
28	10.5	9.5	10.0	15.0	15.0	15.0	---	---	---	---	---	---
29	11.0	10.0	10.5	15.0	14.0	14.5	---	---	---	---	---	---
30	---	---	---	14.0	13.5	13.5	---	---	---	---	---	---
31	---	---	---	14.5	13.0	13.5	---	---	---	---	---	---
MONTH	11.0	5.0	7.5	17.0	9.5	13.0	---	---	---	---	---	---

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--continued

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1971 TO SEPTEMBER 1972

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	28.0	27.5	27.5
2	---	---	---	---	---	---	---	---	---	28.0	27.5	28.0
3	---	---	---	---	---	---	---	---	---	28.0	28.0	28.0
4	---	---	---	---	---	---	---	---	---	28.0	27.0	27.5
5	---	---	---	---	---	---	---	---	---	27.0	26.5	27.0
6	---	---	---	---	---	---	---	---	---	27.0	26.0	26.5
7	---	---	---	---	---	---	---	---	---	27.0	26.5	26.5
8	---	---	---	---	---	---	---	---	---	29.0	27.0	28.0
9	---	---	---	---	---	---	---	---	---	30.0	28.5	28.5
10	---	---	---	27.5	27.0	27.5	28.0	27.0	28.0	30.0	28.5	29.0
11	---	---	---	28.0	27.0	27.5	28.0	27.5	27.5	29.0	28.5	29.0
12	---	---	---	29.0	28.0	28.5	29.0	28.0	28.0	29.5	28.5	29.0
13	---	---	---	29.5	28.0	28.5	30.0	28.0	28.5	29.5	28.0	29.0
14	---	---	---	29.5	28.5	29.0	30.5	28.0	28.5	---	---	---
15	---	---	---	29.5	28.5	29.0	29.0	25.0	28.0	---	---	---
16	---	---	---	30.5	28.5	29.5	28.5	28.5	28.5	---	---	---
17	---	---	---	30.0	29.0	29.5	29.5	28.5	29.0	---	---	---
18	---	---	---	31.0	29.0	30.0	30.0	29.0	29.0	---	---	---
19	29.5	28.5	29.0	31.0	29.0	30.0	30.0	29.0	29.5	---	---	---
20	31.0	29.0	29.0	30.5	29.5	30.0	30.5	30.0	30.0	---	---	---
21	28.5	28.0	28.0	31.0	29.5	30.0	31.0	29.0	30.5	---	---	---
22	28.0	27.5	27.5	31.5	30.0	30.5	30.5	30.0	30.0	25.5	24.0	24.5
23	28.0	27.0	27.5	31.5	30.5	30.5	30.5	29.5	30.0	25.0	24.0	24.5
24	27.5	27.0	27.5	30.5	30.0	30.0	29.5	29.0	29.0	24.5	24.0	24.5
25	28.0	27.0	27.5	---	---	---	29.5	28.5	29.0	25.0	24.5	24.5
26	28.0	27.5	27.5	---	---	---	30.5	28.5	29.5	25.0	24.5	25.0
27	28.0	27.5	27.5	---	---	---	30.5	29.0	29.5	25.0	25.0	25.0
28	---	---	---	---	---	---	29.5	28.0	28.5	26.0	25.0	25.5
29	---	---	---	---	---	---	29.0	27.5	28.0	26.0	24.5	25.5
30	---	---	---	---	---	---	29.0	28.0	28.5	24.5	23.5	23.5
31	---	---	---	---	---	---	28.5	27.5	28.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	24.5	23.5	24.0	17.5	15.0	16.5	7.5	6.5	7.0	---	---	---
2	24.0	23.5	23.5	16.5	15.5	16.0	8.0	7.0	7.5	---	---	---
3	23.5	23.0	23.5	15.0	15.0	15.0	8.5	7.5	8.0	---	---	---
4	25.5	23.0	24.0	---	---	---	9.0	8.0	8.5	---	---	---
5	24.5	23.5	24.0	---	---	---	9.0	7.5	8.0	---	---	---
6	25.0	24.0	24.5	---	---	---	9.0	7.5	8.0	---	---	---
7	23.5	23.0	23.5	---	---	---	7.5	7.0	7.5	---	---	---
8	23.5	22.5	23.0	---	---	---	---	---	---	---	---	---
9	23.5	22.0	22.5	---	---	---	---	---	---	---	---	---
10	23.0	22.0	22.0	13.5	12.5	13.0	---	---	---	---	---	---
11	22.5	22.0	22.0	13.0	12.5	12.5	---	---	---	---	---	---
12	23.5	22.0	22.5	13.0	12.5	13.0	---	---	---	---	---	---
13	23.5	22.5	23.0	14.0	13.0	13.5	---	---	---	---	---	---
14	23.5	22.5	23.0	13.5	12.5	13.0	---	---	---	---	---	---
15	23.0	22.0	22.5	13.0	12.0	12.5	---	---	---	---	---	---
16	23.0	22.0	22.5	12.5	12.0	12.0	---	---	---	---	---	---
17	23.0	22.0	22.5	12.5	11.5	12.0	---	---	---	---	---	---
18	22.5	21.0	22.0	11.5	10.5	11.0	---	---	---	---	---	---
19	21.0	19.0	20.0	10.5	10.0	10.5	4.5	3.5	4.0	---	---	---
20	19.5	18.5	19.0	10.0	9.5	9.5	4.5	4.0	4.0	---	---	---
21	19.0	18.0	18.5	9.5	9.0	9.0	5.0	4.5	4.5	---	---	---
22	18.5	17.5	18.0	9.0	8.5	8.5	5.0	4.5	4.5	---	---	---
23	18.5	18.0	18.0	8.5	8.0	8.5	5.0	4.5	4.5	---	---	---
24	18.5	17.0	18.0	8.0	8.0	8.0	5.0	4.5	5.0	---	---	---
25	17.5	16.5	17.0	8.0	7.5	8.0	5.5	5.0	5.0	---	---	---
26	16.5	15.0	16.0	8.0	7.5	7.5	6.0	5.5	6.0	---	---	---
27	15.5	14.5	15.0	7.5	7.0	7.5	6.5	6.0	6.0	---	---	---
28	16.5	15.0	15.5	7.5	7.0	7.5	6.5	6.5	6.5	---	---	---
29	16.5	15.0	15.5	7.5	7.0	7.0	7.0	7.0	7.0	---	---	---
30	16.0	13.5	15.0	7.0	7.0	7.0	---	---	---	---	---	---
31	15.0	13.0	13.5	---	---	---	---	---	---	---	---	---
MONTH	25.5	13.0	20.5	17.5	7.0	11.0	---	---	---	---	---	---

07263620 Arkansas River at David D. Terry Lock and Dam, below Little Rock, Ark.--continued

WATER TEMPERATURE (°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	14.0	13.5	13.5	---	---	---
3	---	---	---	---	---	---	14.0	13.0	13.5	---	---	---
4	---	---	---	---	---	---	13.0	12.5	13.0	---	---	---
5	---	---	---	---	---	---	13.5	12.5	13.0	---	---	---
6	---	---	---	---	---	---	13.0	12.5	13.0	---	---	---
7	---	---	---	---	---	---	13.5	12.5	13.0	---	---	---
8	---	---	---	---	---	---	14.0	13.0	13.5	---	---	---
9	---	---	---	---	---	---	14.0	13.0	13.0	---	---	---
10	---	---	---	---	---	---	12.5	12.0	12.0	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

07264500 Bayou Meto near Stuttgart, Ark.

LOCATION.--Lat 34°27'15", long 91°36'58", in SE¼SE¼ sec.11, T.3 S., R.6 W., Arkansas County, at bridge on U.S. Highway 79, 5.5 mi (8.8 km) southwest of Stutgart, 8.0 mi (12.9 km) upstream from Crooked Creek.

DRAINAGE AREA.--574 mi² (1,487 km²).

PERIOD OF RECORD.--Chemical analyses: November 1949 to September 1952, October 1968 to September 1973. Water temperatures: November 1949 to September 1952.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
11...	12	--	--	--	--	41	--	43	--	--	--	--
24...	--	--	--	--	--	--	--	35	--	--	--	--
25...	--	--	--	--	--	82	--	--	--	--	--	--
26...	.00	--	--	--	--	--	--	--	--	--	--	--
NOV.												
08...	2510	--	--	--	--	20	--	16	--	--	--	--
29...	--	--	--	--	--	20	--	18	--	--	--	--
DEC.												
06...	2210	--	--	--	--	23	--	8.5	--	--	--	--
19...	3000	800	20	4.0	4.0	18	1.2	7.5	<.10	.20	90	23
JAN.												
10...	2220	--	--	--	--	--	--	8.5	--	--	--	--
13...	--	--	--	--	--	20	--	--	--	--	--	--
24...	2320	--	--	--	--	18	--	9.0	--	--	--	--
FEB.												
07...	2640	--	--	--	--	19	--	6.5	--	--	--	--
21...	2530	--	--	--	--	18	--	7.0	--	--	--	--
MAR.												
14...	2190	--	--	--	--	20	--	8.0	--	--	--	--
27...	2600	1540	89	6.0	3.0	21	<1.0	6.0	1.6	.20	116	22
APR.												
11...	1990	--	--	--	--	25	--	6.5	--	--	--	--
25...	--	--	--	--	--	18	--	4.5	--	--	--	--
MAY												
09...	--	--	--	--	--	21	--	4.0	--	--	--	--
21...	2750	--	--	--	--	31	--	6.0	--	--	--	--
JUNE												
13...	300	--	--	--	--	40	--	5.5	--	--	--	--
26...	90	2000	740	12	5.0	40	6.0	13	.27	.21	107	103
JULY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
25...	35	--	--	--	--	70	--	25	--	--	--	--
AUG.												
08...	108	--	--	--	--	69	--	17	--	--	--	--
28...	8.0	1510	1050	26	8.0	104	8.0	20	.22	.03	190	75
SEP.												
12...	790	--	--	--	--	71	--	42	--	--	--	--
26...	62	--	--	--	--	83	--	22	--	--	--	--

07264500 Bayou Meto near Stuttgart, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
11...	--	--	--	323	7.0	23.0	--	100	6.9	80	2.5	--
24...	--	--	--	314	--	11.0	--	--	8.5	--	--	--
25...	--	--	--	--	7.1	--	--	70	--	59	2.7	--
26...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
08...	--	--	--	120	6.5	15.0	--	35	4.5	44	4.5	--
20...	--	--	--	69	6.7	8.0	--	<25	6.2	53	2.0	--
DEC.												
06...	--	--	--	73	5.5	8.0	--	35	7.0	59	2.5	--
19...	113	26	19	50	7.1	6.0	110	25	9.5	77	2.0	363
JAN.												
10...	--	--	--	69	--	1.0	--	--	9.7	--	--	--
13...	--	--	--	--	6.8	--	--	35	--	69	1.7	--
24...	--	--	--	90	6.6	9.0	--	65	7.8	69	5.0	--
FEB.												
07...	--	--	--	65	6.8	10.0	--	35	7.6	66	1.7	--
21...	--	--	--	64	6.8	6.0	--	60	9.3	74	1.7	--
MAR.												
14...	--	--	--	85	6.7	17.0	--	60	5.1	53	2.6	--
27...	130	27	16	70	6.5	15.0	160	35	5.8	57	1.3	200
APR.												
11...	--	--	--	78	6.8	14.0	--	35	6.7	66	1.7	260
25...	--	--	--	57	7.0	19.0	--	80	4.9	52	2.6	1100
MAY												
09...	--	--	--	61	6.7	24.0	--	35	8.5	100	6.2	1500
21...	--	--	--	80	6.6	24.0	--	39	5.7	67	5.4	25
JUNE												
13...	--	--	--	107	7.2	28.0	--	40	4.2	53	4.0	--
26...	210	51	30	129	7.4	30.0	30	65	5.2	69	4.0	--
JULY												
06...	--	--	--	--	--	--	--	--	--	--	--	2000
25...	--	--	--	216	7.5	31.0	--	66	5.2	69	3.5	9000
AUG.												
08...	--	--	--	214	7.5	29.0	--	65	5.1	66	3.5	--
28...	265	98	66	270	7.8	31.0	15	50	7.0	93	6.3	75
SEP.												
12...	--	--	--	272	7.3	26.0	--	30	4.8	58	2.8	4200
26...	--	--	--	234	7.4	26.0	--	50	5.4	66	2.8	800

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
11...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	10	90	<3	<2	<100	<5	<10	2	<.5	<50	11
JAN.											
10...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
07...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
14...	--	--	--	--	--	--	--	--	--	--	--
27...	27	36	<3	<2	<10	--	7	6	<.1	11	27
APR.											
11...	10	--	--	--	--	--	--	--	--	--	--
25...	640	--	--	--	--	--	--	--	--	--	--
MAY											
09...	<10	--	--	--	--	--	--	--	--	--	--
21...	10	--	--	--	--	--	--	--	--	--	--
JUNE											
13...	155	--	--	--	--	--	--	--	--	--	--
26...	50	216	6	<2	9	--	<7	9	--	37	--
JULY											
06...	100	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	<5	820	<3	<2	<6	--	<20	6	--	<2	<6
SEP.											
12...	60	--	--	--	--	--	--	--	--	--	--
26...	75	--	--	--	--	--	--	--	--	--	--

07265283 Arkansas River at Dam No. 2, near Gillett, Ark.

LOCATION.--Lat 33°58'18", long 91°18'59", in sec.20, T.8 S., R.3 W., Arkansas County, 2 mi (3.2 km) downstream from Arkansas Post Canal, and 9.8 mi (15.8 km) southeast of Gillett.

DRAINAGE AREA.--160,475 mi² (415,630 km²).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
10...	1770	--	--	--	--	--	--	4.5	--	--	--	--
11...	--	--	--	--	--	66	--	--	--	--	--	--
24...	23000	--	--	--	--	--	--	100	--	--	--	--
25...	--	--	--	--	--	99	--	--	--	--	--	--
NOV.												
08...	140000	--	--	--	--	61	--	82	--	--	--	--
20...	114000	--	--	--	--	26	--	10	--	--	--	--
DEC.												
06...	69500	--	--	--	--	31	--	6.0	--	--	--	--
19...	70600	1000	120	15	5.0	43	12	25	.20	.02	130	62
JAN.												
10...	106000	--	--	--	--	--	--	6.0	--	--	--	--
13...	--	--	--	--	--	92	--	--	--	--	--	--
23...	105000	--	--	--	--	--	--	4.5	--	--	--	--
24...	--	--	--	--	--	79	--	--	--	--	--	--
FEB.												
06...	133000	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	62	--	52	--	--	--	--
20...	7550	--	--	--	--	103	--	6.0	--	--	--	--
MAR.												
13...	190000	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	59	--	59	--	--	--	--
27...	--	1470	92	6.0	3.0	21	<1.0	6.0	.40	.18	103	22
APR.												
10...	254000	--	--	--	--	66	--	70	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--	--
25...	254000	--	--	--	--	56	--	37	--	--	--	--
MAY												
09...	254000	--	--	--	--	61	--	44	--	--	--	--
21...	254000	--	--	--	--	72	--	52	--	--	--	--
JUNE												
13...	146000	--	--	--	--	60	--	39	--	--	--	--
26...	82000	1000	80	30	7.0	74	24	55	.41	.14	235	100
JULY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
24...	17400	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	82	--	50	--	--	--	--
AUG.												
06...	14400	--	--	--	--	92	--	63	--	--	--	--
20...	21600	2935	80	42	9.0	103	32	71	.63	.06	311	39
SEP.												
12...	16200	--	--	--	--	113	--	100	--	--	--	--
26...	8960	--	--	--	--	91	--	75	--	--	--	--

07265283 Arkansas River at Dam No. 2, near Gillett, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	213	--	23.0	--	--	7.0	--	--	--
11...	--	--	--	--	7.5	--	--	20	--	81	2.9	--
24...	--	--	--	805	--	17.0	--	--	7.6	--	--	--
25...	--	--	--	--	7.6	--	--	35	--	79	4.0	--
NOV.												
08...	--	--	--	420	7.2	9.0	--	85	8.2	71	2.9	--
29...	--	--	--	75	6.7	8.0	--	35	6.7	57	3.3	--
DEC.												
06...	--	--	--	75	6.6	7.0	--	60	7.3	59	2.0	--
19...	200	58	38	170	7.5	5.0	70	60	12.6	97	2.9	731
JAN.												
10...	--	--	--	160	--	2.0	--	--	11.0	--	--	--
13...	--	--	--	--	7.7	--	--	<25	--	88	1.6	--
23...	--	--	--	170	--	6.0	--	--	9.6	--	--	--
24...	--	--	--	--	7.6	--	--	75	--	77	2.1	--
FEB.												
06...	--	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	355	7.7	16.0	--	120	11.6	101	1.8	--
20...	--	--	--	212	7.0	10.0	--	30	11.6	101	2.2	--
MAR.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	361	7.3	15.0	--	200	8.7	82	1.5	--
27...	125	27	16	60	6.6	14.0	160	25	8.0	77	4.7	160
APR.												
10...	--	--	--	630	7.5	18.0	--	140	9.0	97	1.2	--
11...	--	--	--	--	--	--	--	--	--	--	--	1600
25...	--	--	--	272	7.6	19.0	--	110	7.5	80	6.3	1250
MAY												
09...	--	--	--	330	7.6	21.0	--	65	7.7	88	7.5	3100
21...	--	--	--	302	7.6	20.0	--	50	7.0	85	1.5	6000
JUNE												
13...	--	--	--	300	7.6	27.0	--	65	7.5	93	6.9	--
26...	335	108	76	300	7.7	29.0	10	45	7.0	108	1.6	1600
JULY												
08...	--	--	--	--	--	--	--	--	--	--	--	<20
24...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	372	7.9	32.0	--	19	7.5	101	7.2	2050
AUG.												
08...	--	--	--	420	8.6	29.0	--	16	9.6	121	6.6	--
28...	350	140	106	515	8.0	30.0	10	15	8.2	108	3.1	12
SEP.												
12...	--	--	--	611	8.2	26.0	--	9	8.5	104	4.4	290
26...	--	--	--	481	7.9	25.0	--	14	6.3	76	2.8	<20

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
06...	--	--	--	--	--	--	--	--	--	--	--
19...	529	176	3	<2	<100	<5	200	27	<.5	58	161
JAN.											
10...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
27...	0	13	9	<2	<10	--	5	7	<.1	6	6
APR.											
10...	--	--	--	--	--	--	--	--	--	--	--
11...	100	--	--	--	--	--	--	--	--	--	--
25...	290	--	--	--	--	--	--	--	--	--	--
MAY											
09...	<10	--	--	--	--	--	--	--	--	--	--
21...	37	--	--	--	--	--	--	--	--	--	--
JUNE											
13...	--	--	--	--	--	--	--	--	--	--	--
26...	63	76	6	3	<5	--	160	19	<.2	65	110
JULY											
08...	<5	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
25...	8	--	--	--	--	--	--	--	--	--	--
AUG.											
08...	--	--	--	--	--	--	--	--	--	--	--
28...	<5	<5	<3	<2	6	--	201	26	--	<2	91
SEP.											
12...	8	--	--	--	--	--	--	--	--	--	--
26...	<5	--	--	--	--	--	--	--	--	--	--

07265455 Mississippi River near Greenville, Miss.

LOCATION.--Lat 33°17'33", long 91°09'36", in sec.24, T.16 S., R.1 W., Chicot County, at Corps of Engineers gaging station at bridge on U.S. Highway 82, 7.2 mi (11.6 km) southwest of Greenville.

DRAINAGE AREA.--1,130,700 mi² (2,928,100 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
26...	352000	--	--	--	--	110	--	25	--	--	--	--
NOV.												
21...	432000	--	--	--	--	98	--	16	--	--	--	--
DEC.												
19...	1000000	670	<20	32	9.9	85	46	12	.97	.16	107	155
JAN.												
23...	742000	--	--	--	--	90	--	27	--	--	--	--
MAR.												
20...	1260000	1090	100	33	11	85	29	20	4.0	.20	244	230
MAY												
22...	1690000	--	--	--	--	85	--	17	--	--	--	--
JUNE												
19...	1060000	2190	260	29	12	105	34	17	1.5	.25	200	276
JULY												
26...	387000	--	--	--	--	130	--	16	--	--	--	--
AUG.												
13...	330000	--	--	--	--	--	--	--	--	--	--	--
14...	--	1660	171	30	17	129	61	16	1.5	.22	268	119
SEP.												
25...	233000	--	--	--	--	135	--	19	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
26...	--	--	--	443	8.0	16.0	--	75	8.4	86	1.1	--
NOV.												
21...	--	--	--	330	7.7	9.0	--	150	9.0	78	2.2	--
DEC.												
19...	362	120	85	267	7.7	5.0	30	170	11.5	90	1.1	4050
JAN.												
23...	--	--	--	357	7.6	7.0	--	150	11.4	93	2.3	--
MAR.												
20...	480	130	82	300	7.6	14.0	100	260	9.1	88	1.9	6000
MAY												
22...	--	--	--	283	7.6	25.0	--	20	6.3	76	4.9	2900
JUNE												
19...	402	150	98	273	7.0	20.0	5	65	7.2	92	2.1	4550
JULY												
26...	--	--	--	375	7.9	--	--	80	6.4	--	.5	8000
AUG.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	387	170	90	301	8.1	27.0	5	50	7.4	92	1.2	5200
SEP.												
25...	--	--	--	403	8.1	22.0	--	20	7.3	84	.6	8000

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
26...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
19...	425	250	<3	<2	<10	<5	<10	85	<.5	<50	3
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	400	650	7	<3	<10	--	10	32	<.4	9	30
MAY											
22...	765	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	1025	257	3	15	<10	--	24	90	<.4	12	50
JULY											
26...	550	--	--	--	--	--	--	--	--	--	--
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	450	250	<3	2	<15	--	12	11	<.5	10	16
SEP.											
25...	<6000	--	--	--	--	--	--	--	--	--	--

07338720 Mountain Fork near Hatfield, Ark.

LOCATION.--Lat 34°30'12", long 94°25'50", in NE¼NE¼ sec.17, T.3 S., R.32 W., Polk County, at bridge on State Highway 246, 3.1 mi (5.0 km) northeast of Hatfield.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
05...	--	--	--	--	1.0	--	--	--	--	--	--	--
09...	8.0	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	10	--	5.5	--	--	--	--
NOV.												
06...	--	--	--	--	--	7	--	4.5	--	--	--	--
15...	690	--	--	--	--	--	--	3.5	--	--	--	--
DEC.												
05...	187	--	--	2.0	--	7	3.0	4.0	.14	.02	33	6
18...	320	--	--	--	--	7	--	4.0	--	--	--	--
JAN.												
22...	--	--	--	--	--	6	--	3.0	--	--	--	--
FEB.												
05...	365	--	--	--	--	7	--	3.0	--	--	--	--
15...	250	--	--	--	--	7	--	4.0	--	--	--	--
MAR.												
12...	--	140	14	2.0	1.0	7	1.0	4.0	.70	.03	29	7
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	700	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	7	--	4.0	--	--	--	--
APR.												
04...	230	--	--	--	--	9	--	3.5	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	7	--	4.0	--	--	--	--
MAY												
07...	--	--	--	--	--	8	--	2.5	--	--	--	--
16...	66	--	--	--	--	9	--	2.5	--	--	--	--
JUNE												
12...	172	220	<15	2.0	1.0	9	4.0	2.0	.11	.02	35	2
25...	156	--	--	--	--	11	--	3.5	--	--	--	--
JULY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
09...	170	--	--	--	--	11	--	6.0	--	--	--	--
23...	56	--	--	--	--	14	--	4.5	--	--	--	--
AUG.												
07...	--	232	29	2.0	2.0	16	5.0	5.0	.12	.02	39	5
20...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	16	--	6.0	--	--	--	--
SEP.												
10...	172	--	--	--	--	11	--	3.5	--	--	--	--
24...	320	--	--	--	--	15	--	4.5	--	--	--	--

07338720 Mountain Fork near Hatfield, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)
OCT.											
05...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	63	7.4	23.0	--	24	9.1	100	2.7
NOV.											
08...	--	--	--	49	6.2	15.0	--	60	7.1	70	2.2
15...	--	--	--	32	--	10.0	--	--	10.1	--	--
DEC.											
05...	37	12	6.0	36	6.2	10.0	15	<25	11.0	97	1.2
18...	--	--	--	25	6.1	4.0	--	<25	13.6	99	1.5
JAN.											
22...	--	--	--	25	6.5	6.0	--	<25	11.1	94	1.2
FEB.											
05...	--	--	--	25	6.5	10.0	--	<25	11.6	103	1.2
15...	--	--	--	31	6.7	8.0	--	<25	12.1	102	1.0
MAR.											
12...	36	9	4.0	25	6.4	16.0	20	<25	10.1	102	.7
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	25	6.4	10.0	--	<25	10.6	94	.7
APR.											
09...	--	--	--	27	6.7	11.0	--	<25	11.0	99	.7
23...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	23	6.4	17.0	--	<25	9.3	97	.8
MAY											
07...	--	--	--	21	6.4	17.0	--	23	--	--	--
16...	--	--	--	20	6.7	17.0	--	7	9.6	99	.8
JUNE											
12...	37	9	6.0	27	6.7	25.0	5	10	9.4	112	1.2
25...	--	--	--	32	6.8	26.0	--	13	9.5	116	1.0
JULY											
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	31	6.9	29.0	--	12	8.2	106	1.5
23...	--	--	--	35	6.9	31.0	--	8	8.6	115	1.7
AUG.											
07...	44	13	6.0	30	7.1	29.0	7	5	8.1	104	.8
24...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	44	7.2	33.0	--	<5	7.9	108	1.2
SEP.											
10...	--	--	--	31	6.7	27.0	--	17	7.7	96	.8
24...	--	--	--	30	7.2	25.0	--	4	8.3	99	.8

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
05...	--	--	--	<3	--	--	--	--	<.1	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
05...	200	10	20	<3	--	--	--	--	<.1	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	--	--	--	<3	<3	<10	<10	70	<.4	3	3
13...	366	60	15	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR.											
09...	37	30	--	--	--	--	--	--	--	--	--
23...	1900	250	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	1600	680	--	--	--	--	--	--	--	--	--
16...	707	53	--	--	--	--	--	--	--	--	--
JUNE											
12...	--	--	<25	8	<2	<10	<15	7	<.4	<2	3
25...	305	15	--	--	--	--	--	--	--	--	--
JULY											
07...	173	67	52	--	--	--	--	--	--	--	--
09...	75	63	--	--	--	--	--	--	--	--	--
23...	67	<5	--	--	--	--	--	--	--	--	--
AUG.											
07...	--	--	--	3	3	<15	11	10	<.8	<8	6
24...	333	5	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	1220	100	--	--	--	--	--	--	--	--	--
24...	<20	<6	--	--	--	--	--	--	--	--	--

07340000 Little River near Horatio, Ark.

LOCATION.--Lat 33°55'10", long 94°23'15", in NE¼ sec.10, T.10 S., R.32 W., Sevier County, at gaging station, near left bank on downstream side of bridge on State Highway 41, 0.9 mi (1.4 km) downstream from Rolling Fork, 2 mi (3.2 km) southwest of Horatio, 28.5 mi (45.9 km) upstream from Cossatot River, and at mile 72.0 (115.8 km).

DRAINAGE AREA.--2,674 mi² (6,926 km²).

PERIOD OF RECORD.--Chemical analyses: October 1953 to September 1959, October 1968 to September 1973.
Water temperatures: October 1953 to September 1959.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
09...	161	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	10	--	27	--	--	--	--
NOV.												
06...	8710	--	--	--	--	6	--	2.5	--	--	--	--
15...	13700	--	--	--	--	11	--	3.0	--	--	--	--
DEC.												
05...	4840	--	--	4.0	2.0	9	5.7	3.5	.17	.03	32	15
18...	4700	--	--	--	--	13	--	5.0	--	--	--	--
JAN.												
22...	12100	--	--	--	--	21	--	5.5	--	--	--	--
FEB.												
05...	9080	--	--	--	--	13	--	4.0	--	--	--	--
15...	6070	--	--	--	--	12	--	5.0	--	--	--	--
MAR.												
12...	--	770	92	2.0	2.0	10	3.0	3.5	.56	.10	59	100
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	11600	--	--	--	--	--	--	--	--	--	--	--
26...	2590	--	--	--	--	11	--	4.5	--	--	--	--
APR.												
09...	11500	--	--	--	--	14	--	4.5	--	--	--	--
23...	17100	--	--	--	--	17	--	4.5	--	--	--	--
MAY												
07...	14700	--	--	--	--	11	--	3.0	--	--	--	--
16...	14100	--	--	--	--	9	--	2.5	--	--	--	--
JUNE												
12...	13300	250	38	2.0	1.0	8	4.0	2.5	<.10	.05	32	29
25...	4530	--	--	--	--	18	--	5.5	--	--	--	--
JULY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	18	--	17	--	--	--	--
23...	--	--	--	--	--	20	--	12	--	--	--	--
AUG.												
07...	--	94	127	5.0	2.0	17	7.0	16	<.10	.02	63	8
23...	665	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	393	--	--	--	--	18	--	18	--	--	--	--
SEP.												
10...	2130	--	--	--	--	24	--	9.5	--	--	--	--
24...	--	--	--	--	--	17	--	9.5	--	--	--	--

07340000 Little River near Horatio, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESI- DUE (MG/L)	HARD- NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (JTU)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)
OCT.											
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	145	7.1	23.0	--	20	8.4	97	3.5
NOV.											
06...	--	--	--	24	6.1	14.0	--	125	9.5	91	3.8
15...	--	--	--	40	6.4	12.0	--	<25	8.6	80	2.0
DEC.											
05...	47	18	10	37	6.4	11.0	20	<25	14.0	94	1.5
18...	--	--	--	47	6.3	5.0	--	<25	12.3	96	2.2
JAN.											
22...	--	--	--	56	6.8	10.0	--	150	9.6	85	2.8
FEB.											
05...	--	--	--	40	6.7	10.0	--	<25	11.1	98	1.5
15...	--	--	--	46	7.0	9.0	--	<25	11.0	95	1.7
MAR.											
12...	159	13	6.0	33	6.6	20.0	80	130	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	37	6.5	13.0	--	40	8.5	80	1.6
APR.											
09...	--	--	--	42	6.8	11.0	--	<25	10.1	91	1.0
23...	--	--	--	47	6.6	21.0	--	45	8.7	97	2.0
MAY											
07...	--	--	--	33	6.5	18.0	--	16	--	--	--
16...	--	--	--	32	6.6	19.0	--	17	8.3	88	.9
JUNE											
12...	61	9	6.0	29	6.6	22.0	10	31	8.7	99	2.1
25...	--	--	--	52	7.0	26.0	--	17	7.4	90	1.4
JULY											
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	85	6.9	28.0	--	14	7.5	95	--
23...	--	--	--	71	6.8	29.0	--	13	7.4	95	1.7
AUG.											
07...	71	21	12	82	7.0	28.0	10	7	7.8	99	1.1
23...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	90	7.0	28.0	--	6	8.1	103	1.9
SEP.											
10...	--	--	--	75	6.8	27.0	--	100	5.9	73	1.4
24...	--	--	--	62	7.0	27.0	--	9	8.2	101	1.2

DATE	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD- MIUM (CD) (UG/L)	TOTAL CHRO- MIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
06...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
05...	1140	75	96	<3	--	--	--	--	<.1	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	--	--	--	13	13	<10	<10	140	<.4	14	23
13...	2875	1220	560	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR.											
09...	14300	187	--	--	--	--	--	--	--	--	--
23...	14000	940	--	--	--	--	--	--	--	--	--
MAY											
07...	1600	40	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
12...	--	--	32	<3	5	<14	<15	16	<.4	<2	4
25...	366	20	--	--	--	--	--	--	--	--	--
JULY											
07...	730	32	15	--	--	--	--	--	--	--	--
09...	600	13	--	--	--	--	--	--	--	--	--
23...	270	<6	--	--	--	--	--	--	--	--	--
AUG.											
07...	--	--	--	7	2	<15	11	6	<.8	<8	3
23...	--	--	--	--	--	--	--	--	--	--	--
24...	820	<6	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	3500	140	--	--	--	--	--	--	--	--	--
24...	50	<10	--	--	--	--	--	--	--	--	--

07342380 McKinney Bayou near Fouke, Ark.

LOCATION.--Lat 33°09'36", long 93°50'17", in NW¼ sec.30, T.18 S., R.26 W., Miller County, at bridge on county road, 0.8 mi (1.3 km) upstream from Red River, 7.5 mi (12.1 km) southeast of Fouke.

PERIOD OF RECORD.--Chemical analyses: October 1972 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 10...	--	--	--	--	--	--	94	--	--	--	--	--
NOV. 07...	1900	370	13	6.0	41	7.0	19	1.0	.31	161	120	281
28...	--	--	--	--	34	--	43	--	--	--	--	--
FEB. 06...	2140	73	12	6.0	37	<1.0	23	1.2	.30	189	96	285
MAR. 06...	--	--	--	--	32	--	13	--	--	--	--	--
APR. 10...	--	--	--	--	--	--	43	--	--	--	--	--
MAY 08...	2610	160	21	7.0	62	10	33	.34	.29	168	55	223
JUNE 05...	--	--	--	--	50	--	81	--	--	--	--	--
JULY 10...	2950	130	14	7.0	53	8.0	17	2.9	.41	126	293	419
31...	--	--	--	--	91	--	155	--	--	--	--	--
SEP. 11...	--	--	--	--	--	--	20	--	--	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 10...	--	--	464	--	22.0	--	--	--	--	--	--
NOV. 07...	57	32	151	7.0	15.0	140	150	7.9	78	2.8	--
28...	--	--	149	2.0	8.0	--	50	10.1	85	1.2	--
FEB. 06...	55	30	159	7.0	12.0	360	140	9.4	88	1.8	--
MAR. 06...	--	--	114	7.0	15.0	--	220	7.8	77	3.8	--
APR. 10...	--	--	257	--	9.0	--	--	--	--	--	5800
MAY 08...	81	52	253	7.3	20.0	30	45	7.2	78	2.4	12000
JUNE 05...	--	--	392	7.6	21.0	--	95	6.9	78	2.5	--
JULY 10...	64	36	148	7.6	28.0	50	190	5.4	69	3.0	--
31...	--	--	785	7.6	27.0	--	7	9.6	119	1.1	--
SEP. 11...	--	--	180	--	25.0	--	--	--	--	--	--

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--
NOV. 07...	--	--	7	4	<100	7	40	11	--	<50	44
28...	--	--	--	--	--	--	--	--	--	--	--
FEB. 06...	--	--	4	4	<80	<5	40	37	<.1	<30	91
MAR. 06...	--	--	--	--	--	--	--	--	--	--	--
APR. 10...	2450	--	--	--	--	--	--	--	--	--	--
MAY 08...	57	30	<3	<2	<10	--	16	12	<.5	29	17
JUNE 05...	--	--	--	--	--	--	--	--	--	--	--
JULY 10...	--	--	39	3	<15	--	19	54	<.4	11	32
31...	--	--	--	--	--	--	--	--	--	--	--
SEP. 11...	--	--	--	--	--	--	--	--	--	--	--

07344275 Sulphur River south of Texarkana, Ark.

LOCATION.--Lat 33°14'32", long 93°59'58", in SE¼SE¼ sec.28, T.17 S., R.28 W., Miller County, at bridge on State Highway 237, 13.5 mi (21.7 km) south of Texarkana.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
10...	12	--	--	--	--	38	--	62	--	--	--	--
NOV.												
07...	3700	300	230	30	6.0	72	23	31	3.1	.03	203	7
28...	4100	--	--	--	--	63	--	9.5	--	--	--	--
FEB.												
06...	6700	1000	76	21	3.0	49	17	14	.72	.19	159	53
MAR.												
06...	4200	--	--	--	--	47	--	18	--	--	--	--
10...	10500	--	--	--	--	--	--	--	--	--	--	--
APR.												
10...	--	--	--	--	--	57	--	7.5	--	--	--	--
MAY												
08...	11100	980	90	17	3.0	52	9.0	6.5	.48	.17	108	43
JUNE												
05...	3500	--	--	--	--	66	--	10	--	--	--	--
JULY												
10...	96	1710	400	23	2.0	68	10	12	.78	.19	129	93
31...	30	--	--	--	--	194	--	14	--	--	--	--
SEP.												
11...	2400	--	--	--	--	73	--	29	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	444	7.4	20.0	--	210	5.4	60	2.0	--
NOV.												
07...	210	100	74	285	7.3	15.0	10	<25	8.4	82	2.4	2100
28...	--	--	--	176	7.2	7.0	--	25	9.1	75	.8	--
FEB.												
06...	212	65	52	179	7.5	12.0	100	100	10.0	93	2.3	--
MAR.												
06...	--	--	--	187	7.0	15.0	--	50	7.2	71	2.9	--
10...	--	--	--	--	--	--	--	--	--	--	--	--
APR.												
10...	--	--	--	156	7.3	7.0	--	40	8.8	73	1.3	820
MAY												
08...	151	55	42	143	7.0	18.0	50	32	7.0	75	2.3	5600
JUNE												
05...	--	--	--	174	7.8	21.0	--	26	4.6	51	1.4	215
JULY												
10...	222	66	58	172	7.4	25.0	30	65	2.4	29	2.1	766
31...	--	--	--	205	8.5	26.0	--	120	5.4	66	4.3	--
SEP.												
11...	--	--	--	255	7.4	25.0	--	11	4.3	51	2.6	24000

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	110	460	14	4	<100	<5	30	78	--	<50	24
28...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
06...	--	--	11	4	<80	<5	10	87	<.1	<30	31
MAR.											
06...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
APR.											
10...	50	--	--	--	--	--	--	--	--	--	--
MAY											
08...	10	100	<3	<2	<10	--	<10	50	<.4	19	19
JUNE											
05...	83	--	--	--	--	--	--	--	--	--	--
JULY											
10...	46	100	27	<2	<15	--	14	81	<.2	7	36
31...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	40	--	--	--	--	--	--	--	--	--	--

07344275 Sulphur River south of Texarkana, Ark.--Continued

REMARKS.--Records furnished by Corps of Engineers, New Orleans, La.

CHEMICAL ANALYSES, JULY TO SEPTEMBER 1973

DATE	TIME (24-HR)	DEPTH OF COLLECTION (FEET)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JULY						
05...	1815	2.0	900	6.8	30.4	2.0
		5.0	500	6.8	30.4	1.7
		10.0	500	6.8	30.4	1.4
12...	1815	2.0	500	6.8	30.9	4.1
		5.0	400	6.8	30.9	4.2
19...	1815	2.0	300	6.9	30.8	5.1
		5.0	200	6.9	30.7	5.1
26...	1715	2.0	600	7.2	25.5	6.1
		5.0	400	7.2	24.8	6.0
		10.0	400	7.0	23.9	5.8
AUG.						
02...	1800	2.0	<100	7.1	31.7	5.4
		5.0	100	7.0	31.8	5.0
09...	1730	2.0	200	7.2	32.3	5.9
16...	1720	2.0	200	7.0	31.6	6.4
23...	1800	2.0	100	7.3	31.8	7.4
30...	1730	2.0	300	6.1	30.0	7.4
SEP.						
07...	1750	2.0	100	6.8	27.1	5.3
		5.0	100	6.9	27.1	5.9
		10.0	100	6.9	27.1	5.8
13...	1735	2.0	300	7.7	29.4	7.8
20...	1725	2.0	100	--	25.9	--
		5.0	100	--	25.8	--
27...	1740	2.0	200	6.8	27.0	5.4

07344290 Days Creek south of Texarkana, Ark.

LOCATION.--Lat 33°21'12", long 94°02'33", in SW¼NW¼ sec.19, T.16 S., R.28 W., Miller County, at bridge on Texas-Arkansas State line road, 5.2 mi (8.4 km) south of junction of U.S. Highway 67 and State line road in Texarkana.

PERIOD OF RECORD.--Chemical analyses: October [illegible] to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 10...	--	--	--	--	81	--	730	--	--	--	--	--
NOV. 28...	1100	250	15	6.0	44	23	115	.44	.92	317	22	339
FEB. 06...	1110	200	15	6.0	50	24	48	1.1	1.2	198	18	216
MAR. 06...	--	--	--	--	29	--	48	--	--	--	--	--
APR. 10...	--	--	--	--	29	--	38	--	--	--	--	--
MAY 08...	1130	240	18	5.0	74	21	96	.31	2.3	312	16	328
JULY 10...	920	150	17	3.0	78	18	134	.48	2.7	364	35	399
31...	--	--	--	--	118	--	430	--	--	--	--	--
SEP. 11...	--	--	--	--	97	--	230	--	--	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 10...	--	--	2868	7.0	20.0	--	49	.0	0	3.8	--
NOV. 28...	62	38	454	6.7	8.0	80	<25	6.3	53	76	--
FEB. 06...	62	38	308	6.9	12.0	50	<25	7.1	66	7.0	--
MAR. 06...	--	--	246	6.8	15.0	--	45	7.7	76	5.3	--
APR. 10...	--	--	219	6.7	7.0	--	55	7.6	63	9.0	755000
MAY 08...	66	44	536	7.0	18.0	30	13	1.3	14	6.7	1100000
JULY 10...	55	43	565	7.3	25.0	40	19	2.7	33	7.2	30000
31...	--	--	1843	7.2	24.0	--	12	1.8	22	9.0	370000
SEP. 11...	--	--	995	7.2	25.0	--	8	.4	5	6.9	170000

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 10...	--	--	--	--	--	--	--	--	--	--	--
NOV. 28...	--	--	<3	<2	<100	<5	10	<2	<.1	<50	50
FEB. 06...	--	--	12	8	<80	<5	30	170	.2	<30	95
MAR. 06...	--	--	--	--	--	--	--	--	--	--	--
APR. 10...	7500	--	--	--	--	--	--	--	--	--	--
MAY 08...	<2000	<50	13	3	<10	--	<10	11	<.4	13	28
JULY 10...	2000	150	69	3	<15	--	21	37	<.1	3	38
31...	130000	--	--	--	--	--	--	--	--	--	--
SEP. 11...	600	--	--	--	--	--	--	--	--	--	--

07344350 Red River at Spring Bank, Ark.
(Formerly published as Red River near Doddridge)

LOCATION.--Lat 33°05'29", long 93°51'38", in NW¼ sec.24, T.19 S., R.27 W., Miller County, at ferry landing, 1.8 mi (2.9 km) west of Spring Bank.

DRAINAGE AREA.--56,903 mi² (147,379 km²).

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
10...	1200	--	--	--	--	68	--	75	--	--	--	--
NOV.												
07...	72000	4800	650	21	4.0	50	5.5	15	3.0	.22	170	723
28...	34000	--	--	--	--	--	--	16	--	--	--	--
FEB.												
06...	51000	1600	89	27	6.0	51	31	50	1.9	.21	232	245
MAR.												
03...	15000	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	61	--	62	--	--	--	--
APR.												
10...	52000	--	--	--	--	61	--	56	--	--	--	--
MAY												
08...	--	3360	130	31	6.0	62	27	56	.61	.24	245	537
JUNE												
05...	25000	--	--	--	--	80	--	40	--	--	--	--
JULY												
10...	10000	530	110	62	15	142	>63	139	.36	.13	537	125
31...	8300	--	--	--	--	155	--	165	--	--	--	--
SEP.												
11...	38000	--	--	--	--	49	--	66	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	622	7.8	22.0	--	54	7.4	84	2.3	--
NOV.												
07...	893	69	52	151	7.8	15.0	160	550	7.5	74	1.8	5200
28...	--	--	--	152	--	9.0	--	--	10.3	--	--	--
FEB.												
06...	477	92	68	318	7.7	10.0	120	230	10.0	--	1.4	89
MAR.												
03...	--	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	401	7.6	--	--	420	9.1	--	1.8	--
APR.												
10...	--	--	--	382	7.4	12.0	--	130	8.9	83	1.0	425
MAY												
08...	782	100	78	389	7.4	20.0	30	145	6.6	72	1.0	600
JUNE												
05...	--	--	--	330	7.9	23.0	--	90	6.5	77	1.3	700
JULY												
10...	662	220	156	783	8.1	29.0	15	55	6.3	82	1.0	400
31...	--	--	--	937	8.0	29.0	--	34	6.6	85	1.0	440
SEP.												
11...	--	--	--	465	7.8	26.0	--	400	4.8	59	1.8	--

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	2200	2175	3	3	<100	<5	--	16	--	<50	30
28...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
06...	--	--	4	<3	<80	<5	170	20	<.1	<30	24
MAR.											
03...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
APR.											
10...	67	--	--	--	--	--	--	--	--	--	--
MAY											
08...	79	38	<3	<2	<10	--	10	<10	<.6	29	23
JUNE											
05...	200	--	--	--	--	--	--	--	--	--	--
JULY											
10...	52	46	<3	4	<15	--	16	31	<.1	2	36
31...	220	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	125	--	--	--	--	--	--	--	--	--	--

07344380 Posten Bayou near Wardview, La.

LOCATION.--Lat 33°00'26", long 93°46'32", in NE¼NE¼ sec.11, T.23 N., R.14 W., Bossier Parish, at bridge on Missionary Ferry road, and 3.0 mi (4.8 km) northeast of Wardview.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
10...	.06	--	--	--	--	--	--	--	--	--	--	--
NOV.												
07...	202	--	--	--	--	35	--	6.0	--	--	--	--
28...	326	600	90	15	3.0	40	7.2	8.5	.42	.26	126	89
FEB.												
06...	60	--	--	--	--	46	--	7.5	--	--	--	--
MAR.												
06...	182	1260	130	14	6.0	46	26	7.5	.71	.23	192	178
APR.												
10...	102	--	--	--	--	51	--	10	--	--	--	--
MAY												
08...	12	--	--	--	--	80	--	12	--	--	--	--
JUNE												
05...	163	3700	180	20	2.6	50	15	23	2.3	.55	172	273
JULY												
10...	2.0	--	--	--	--	145	--	61	--	--	--	--
31...	2.0	1070	170	--	20	182	16	39	--	--	296	171
SEP.												
11...	16	--	--	--	--	170	--	35	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
07...	--	--	--	91	7.0	16.0	--	360	5.6	56	4.1	--
28...	215	50	30	123	6.9	8.0	200	65	8.9	75	1.1	2600
FEB.												
06...	--	--	--	125	7.2	14.0	--	100	7.6	74	1.2	--
MAR.												
06...	370	60	34	124	7.2	16.0	300	160	6.2	62	2.7	2550
APR.												
10...	--	--	--	153	7.3	10.0	--	130	8.5	75	2.2	15000
MAY												
08...	--	--	--	230	7.3	21.0	--	75	4.5	51	1.7	400
JUNE												
05...	445	50	50	177	7.6	22.0	50	235	5.3	60	3.1	--
JULY												
10...	--	--	--	464	7.9	29.0	--	55	3.3	42	1.0	1200
31...	467	--	--	460	8.1	27.0	20	110	3.3	41	2.1	14600
SEP.												
11...	--	--	--	420	7.9	27.0	--	90	4.5	56	2.2	3400

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	153	450	<3	<2	<100	<5	17	2	<.1	<50	30
FEB.											
06...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
06...	840	570	12	8	<80	--	<10	42	<.1	40	21
APR.											
10...	440	--	--	--	--	--	--	--	--	--	--
MAY											
08...	130	--	--	--	--	--	--	--	--	--	--
JUNE											
05...	5900	11000	5	2	--	--	<15	20	<.3	100	22
JULY											
10...	90	--	--	--	--	--	--	--	--	--	--
31...	1000	2050	<3	3	25	--	<10	45	<.1	7	19
SEP.											
11...	183	--	--	--	--	--	--	--	--	--	--

07346410 State line Creek near Rodessa, La.

LOCATION.--Lat 32°59'40", long 94°00'28", in NE¼NW¼ sec.15, T.23 N., R.16 W., Caddo Parish, La., at bridge on Louisiana State Highway 1, 2.0 mi (3.2 km) northwest of Rodessa.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
10...	.00	--	--	--	--	--	--	20	--	--	--	--
NOV.												
07...	10	1600	1000	14	5.0	4	8.6	80	.50	.04	252	23
28...	7.0	--	--	--	--	4	--	20	--	--	--	--
FEB.												
06...	60	700	40	4.0	2.0	7	4.0	14	.22	.02	69	16
MAR.												
06...	113	--	--	--	--	9	--	26	--	--	--	--
APR.												
10...	71	--	--	--	--	--	--	29	--	--	--	--
MAY												
08...	1.0	3290	350	6.0	3.0	11	3.0	22	.31	.12	103	26
JUNE												
05...	21	--	--	--	--	8	--	41	--	--	--	--
JULY												
10...	7.0	3030	3660	10	6.0	35	1.0	29	1.0	.06	139	11
31...	.00	--	--	--	--	31	--	22	--	--	--	--
SEP.												
11...	--	--	--	--	--	--	--	19	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	126	--	19.0	--	--	--	--	--	--
NOV.												
07...	275	56	34	289	5.6	15.0	50	<25	5.1	50	3.1	8600
28...	--	--	--	92	6.0	6.0	--	<25	9.4	76	.8	--
FEB.												
06...	79	10	10	69	6.4	12.0	70	<25	7.6	71	.8	--
MAR.												
06...	--	--	--	90	6.3	15.0	--	<25	6.9	68	2.1	--
APR.												
10...	--	--	--	162	--	8.0	--	--	--	--	--	1450
MAY												
08...	127	27	16	105	6.4	17.0	75	24	5.6	58	1.2	1100
JUNE												
05...	--	--	--	152	6.6	21.0	--	37	5.8	64	2.4	--
JULY												
10...	150	56	26	147	7.5	25.0	80	17	2.2	26	1.3	2300
31...	--	--	--	147	7.2	26.0	--	16	1.4	17	2.4	--
SEP.												
11...	--	--	--	101	--	25.0	--	--	--	--	--	--

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	675	2900	6	4	<100	<5	30	49	--	<50	55
28...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
06...	--	--	<3	<3	<80	<5	10	8	<.1	<30	22
MAR.											
06...	--	--	--	--	--	--	--	--	--	--	--
APR.											
10...	213	--	--	--	--	--	--	--	--	--	--
MAY											
08...	50	90	<3	3	<10	--	<10	5	<.4	16	27
JUNE											
05...	1360	--	--	--	--	--	--	--	--	--	--
JULY											
10...	91	580	9	3	<15	--	7	12	<.1	5	27
31...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	--	--	--	--	--	--	--	--	--	--	--

07346950 Kelly Bayou near Ida, La.

LOCATION.--Lat 33°00'05", long 93°51'55", in SW¼NE¼ sec.12, T.23 N., R.15 W., Caddo Parish, La., at bridge on State Highway 168, 1.2 mi (1.9 km) south of Arkansas-Louisiana State line, 1.8 mi (2.9 km) east of Ida.

DRAINAGE AREA.--73 mi² (189 km²), approximately.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
10...	.00	--	--	--	--	--	--	25	--	--	--	--
NOV.												
07...	312	1400	260	9.0	2.0	16	4.0	18	1.5	.23	143	111
28...	42	--	--	--	--	35	--	2.6	--	--	--	--
FEB.												
06...	103	660	59	4.0	3.0	5	<1.0	17	.20	.02	67	17
MAR.												
06...	170	--	--	--	--	9	--	15	--	--	--	--
APR.												
10...	165	--	--	--	--	--	--	12	--	--	--	--
MAY												
08...	35	270	150	4.0	3.0	12	3.0	16	.29	.07	80	31
JUNE												
05...	165	--	--	--	--	11	--	16	--	--	--	--
JULY												
10...	.00	3270	620	13	6.0	56	3.0	11	1.0	.16	122	51
31...	.00	--	--	--	--	61	--	14	--	--	--	--
SEP.												
11...	--	--	--	--	--	--	--	18	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	206	--	19.0	--	--	--	--	--	--
NOV.												
07...	254	31	22	100	6.5	15.0	160	160	5.7	56	4.2	--
28...	--	--	--	103	6.3	7.0	--	<25	9.4	77	1.8	--
FEB.												
06...	84	22	10	79	6.6	12.0	50	<25	8.5	79	.5	--
MAR.												
06...	--	--	--	79	6.6	15.0	--	<25	7.2	71	1.1	--
APR.												
10...	--	--	--	63	--	9.0	--	--	--	--	--	850
MAY												
08...	111	22	10	87	6.5	17.0	50	25	7.0	73	1.1	1300
JUNE												
05...	--	--	--	87	6.8	21.0	--	90	6.4	71	2.2	1600
JULY												
10...	173	57	32	121	7.5	27.0	75	50	4.7	59	2.7	200
31...	--	--	--	166	7.4	27.0	--	120	3.7	46	2.0	1700
SEP.												
11...	--	--	--	105	--	25.0	--	--	--	--	--	--

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	7600	>1300	16	<2	<100	<5	60	50	--	<50	34
28...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
06...	--	--	<3	3	<80	<5	<8	16	<.1	<30	60
MAR.											
06...	--	--	--	--	--	--	--	--	--	--	--
APR.											
10...	305	--	--	--	--	--	--	--	--	--	--
MAY											
08...	50	150	<3	<2	<10	--	<10	11	<.5	4	10
JUNE											
05...	2900	--	--	--	--	--	--	--	--	--	--
JULY											
10...	160	300	25	<2	<15	--	12	510	<.1	19	22
31...	1700	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	--	--	--	--	--	--	--	--	--	--	--

07348680 Crooked Creek at Arkansas-Louisiana State line

LOCATION.--Lat 33°01'06", long 93°25'20", in SE¼SE¼ sec.7, T.20 S., R.22 W., Columbia County, at bridge on county road 200 ft (61 m) north of Arkansas-Louisiana State line, and 2.6 mi (4.2 km) east of Welcome, Ark.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)
NOV.												
07...	77	--	--	--	--	12	--	52	--	--	--	--
28...	--	--	--	--	--	10	--	36	--	--	--	--
29...	74	--	--	--	--	--	--	--	--	--	--	--
FEB.												
06...	263	300	70	5.0	2.0	8	6.0	9.5	.20	.04	73	57
MAR.												
06...	168	--	--	--	--	26	--	16	--	--	--	--
APR.												
10...	77	1330	160	8.0	4.0	18	5.0	22	.72	.13	120	22
MAY												
08...	24	--	--	--	--	21	--	42	--	--	--	--
JUNE												
05...	18	--	--	--	--	61	--	66	--	--	--	--
JULY												
10...	11	--	--	--	--	22	--	33	--	--	--	--
31...	8.0	--	--	--	--	30	--	100	--	--	--	--
SEP.												
11...	161	490	103	9.0	1.0	15	6.0	15	.32	.07	66	69

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
NOV.												
07...	--	--	--	196	6.2	16.0	--	55	5.3	53	4.6	--
28...	--	--	--	92	6.6	8.0	--	<25	8.7	73	1.1	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
06...	130	21	12	60	6.4	12.0	100	<25	7.2	66	.9	175
MAR.												
06...	--	--	--	106	6.2	15.0	--	<25	6.6	65	2.1	--
APR.												
10...	148	36	21	131	6.8	10.0	120	30	7.8	71	2.1	15000
MAY												
08...	--	--	--	211	6.4	19.0	--	20	6.1	63	1.6	10000
JUNE												
05...	--	--	--	362	7.5	21.0	--	18	2.2	24	2.1	600
JULY												
10...	--	--	--	152	6.9	25.0	--	19	4.7	56	1.7	2230
31...	--	--	--	675	7.1	25.0	--	21	3.5	43	1.5	17000
SEP.												
11...	113	27	22	86	6.5	20.0	80	5	3.0	46	1.0	4000

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
06...	43	36	6	7	<80	<5	90	120	<.1	<30	30
MAR.											
06...	--	--	--	--	--	--	--	--	--	--	--
APR.											
10...	1215	1100	<3	10	<10	--	<10	<10	<.2	<10	26
MAY											
08...	1900	--	--	--	--	--	--	--	--	--	--
JUNE											
05...	2100	--	--	--	--	--	--	--	--	--	--
JULY											
10...	50	--	--	--	--	--	--	--	--	--	--
31...	1250	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	185	1120	<3	<2	<6	--	20	9	--	7	7

07348700 Bayou Dorcheat near Springhill, La.

LOCATION.--Lat 32°59'40", long 93°23'47", in NE¼NE¼ sec.16, T.23 N., R.10 W., Webster Parish, at gaging station at bridge on Louisiana State Highway 157, 0.4 mi (0.6 km) downstream from Crooked Creek, 1.7 mi (2.7 km) downstream from Arkansas-Louisiana State line, and 2.8 mi (4.5 km) southeast of Springhill city limits.

DRAINAGE AREA.--605 mi² (1,567 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958, October 1961 to September 1962, October 1967 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
10...	--	600	635	10	10	36	7.0	149	.08	1.6	276	22
NOV.												
07...	241	--	--	--	--	36	--	110	--	--	--	--
20...	--	--	--	--	--	10	--	--	--	--	--	--
29...	637	--	--	--	--	--	--	--	--	--	--	--
FEB.												
06...	2730	290	65	6.0	3.0	6	2.0	25	.10	.05	96	11
MAR.												
06...	--	--	--	--	--	7	--	50	--	--	--	--
APR.												
06...	605	--	--	--	--	--	--	--	--	--	--	--
10...	599	1610	200	9.0	4.0	9	1.0	47	.20	.14	150	18
MAY												
08...	762	--	--	--	--	8	--	31	--	--	--	--
JUNE												
05...	103	--	--	--	--	15	--	75	--	--	--	--
JULY												
10...	298	--	--	--	--	11	--	71	--	--	--	--
31...	72	--	--	--	--	10	--	--	--	--	--	--
SEP.												
11...	1500	665	323	10	3.0	7	6.0	41	<.10	.09	125	48

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
10...	298	66	46	671	7.0	18.0	30	25	2.5	26	1.0	--
NOV.												
07...	--	--	--	463	6.6	15.0	--	55	5.0	57	2.0	--
20...	--	--	--	--	6.7	--	--	<25	--	73	1.3	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
06...	105	27	14	108	6.0	12.0	80	<25	7.6	71	.9	220
MAR.												
06...	--	--	--	193	6.2	15.0	--	<25	6.9	68	1.4	--
APR.												
06...	--	--	--	--	--	--	--	--	--	--	--	--
10...	168	39	22	191	6.5	19.0	80	<25	7.3	85	.9	--
MAY												
08...	--	--	--	140	6.3	19.0	--	14	6.0	51	1.6	--
JUNE												
05...	--	--	--	290	7.2	22.0	--	16	6.1	68	1.2	1600
JULY												
10...	--	--	--	273	6.6	25.0	--	11	6.7	56	.7	--
31...	--	--	--	--	7.1	--	--	14	--	68	1.4	2700
SEP.												
11...	173	37	26	160	6.0	25.0	82	5	6.9	59	1.3	6600

07348700 Bayou Dorcheat near Springhill, La.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	9	6	<100	--	10	<80	--	70	20
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
09...	13	60	6	10	<60	<5	10	100	<.1	<30	72
MAR.											
08...	--	--	--	--	--	--	--	--	--	--	--
APR.											
04...	--	--	--	--	--	--	--	--	--	--	--
10...	140	175	<3	7	<10	--	10	20	<.2	<10	30
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
05...	262	--	--	--	--	--	--	--	--	--	--
JULY											
10...	--	--	--	--	--	--	--	--	--	--	--
31...	76	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	205	833	<3	<2	<6	--	20	5	--	5	12

07348705 Cypress Creek at Arkansas-Louisiana State line

LOCATION.--Lat 33°01'02", long 93°10'19", in NE¼NW¼ sec.5, T.23 N., R.9 W., Webster Parish, at bridge on Louisiana State Highway 159, 200 ft (61 m) south of Arkansas-Louisiana State line, and 5.0 mi (8.0 km) north of Shongaloo, La.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)
NOV.												
07...	9.5	--	--	--	--	8	--	36	--	--	--	--
28...	--	--	--	--	--	--	--	57	--	--	--	--
29...	103	--	--	--	--	--	--	--	--	--	--	--
FEB.												
06...	77	660	240	7.6	3.4	5	6.0	51	.20	.05	139	23
MAR.												
06...	219	--	--	--	--	6	--	66	--	--	--	--
APR.												
10...	200	1470	200	7.0	3.0	6	2.0	36	.60	.10	150	27
MAY												
08...	205	--	--	--	--	6	--	16	--	--	--	--
JUNE												
05...	10	--	--	--	--	10	--	21	--	--	--	--
JULY												
10...	5.2	--	--	--	--	8	--	67	--	--	--	--
31...	4.2	--	--	--	--	16	--	57	--	--	--	--
SEP.												
11...	6.7	1050	260	7.6	4.6	11	9.0	36	.43	.08	110	83

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
NOV.												
07...	--	--	--	135	6.0	15.0	--	25	6.0	59	2.6	--
28...	--	--	--	200	5.0	8.0	--	<25	9.2	77	1.1	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
06...	162	30	10	190	6.0	12.0	70	<25	8.4	79	.7	321
MAR.												
06...	--	--	--	170	6.0	15.0	--	25	7.3	72	2.1	--
APR.												
10...	177	30	10	166	6.1	18.0	120	30	8.5	75	2.0	3750
MAY												
08...	--	--	--	71	6.0	19.0	--	21	6.3	67	2.6	<1700
JUNE												
05...	--	--	--	101	6.8	22.0	--	55	5.4	62	1.8	6400
JULY												
10...	--	--	--	234	6.6	25.0	--	25	5.9	70	2.0	900
31...	--	--	--	230	6.9	25.0	--	32	3.6	43	2.3	11000
SEP.												
11...	193	36	10	167	6.3	25.0	80	20	5.9	71	1.8	3600

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
06...	<5	20	6	6	<80	<5	10	60	<.7	30	22
MAR.											
06...	--	--	--	--	--	--	--	--	--	--	--
APR.											
10...	1100	1100	<3	7	<10	--	16	57	<.2	<10	26
MAY											
08...	1700	--	--	--	--	--	--	--	--	--	--
JUNE											
05...	1000	--	--	--	--	--	--	--	--	--	--
JULY											
10...	70	--	--	--	--	--	--	--	--	--	--
31...	1000	--	--	--	--	--	--	--	--	--	--
SEP.											
11...	110	760	<3	<2	<6	--	<20	26	--	5	20

07349445 Bodcau Creek near Taylor, Ark.

LOCATION.--Lat 33°02'41", long 93°31'14", in SW¼SW¼ sec.32, T.19 S., R.23 W., Lafayette County, at bridge on State Highway 160, 0.4 mi (0.6 km) south of Lake Erling Dam, and 4.4 mi (7.1 km) southwest of Taylor.

PERIOD OF RECORD.--Chemical analyses: May 1950 to October 1952, October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
10...	70	--	--	--	--	8	--	59	--	--	--	--
NOV.												
07...	82	--	--	--	--	15	--	53	--	--	--	--
28...	78	300	200	6.0	4.0	12	9.3	53	.40	<.01	150	--
FEB.												
06...	82	--	--	--	--	6	--	17	--	--	--	--
MAR.												
06...	690	510	230	4.0	3.0	11	4.0	25	.10	.02	90	8
APR.												
10...	420	--	--	--	--	8	--	15	--	--	--	--
MAY												
08...	650	--	--	--	--	9	--	12	--	--	--	--
JUNE												
05...	61	1230	840	5.0	3.0	14	4.0	11	.14	.08	78	48
JULY												
10...	200	--	--	--	--	15	--	12	--	--	--	--
31...	93	460	257	--	1.0	14	3.0	13	--	--	60	11
SEP.												
11...	200	--	--	--	--	19	--	16	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	248	6.7	22.0	--	25	7.1	81	1.8	--
NOV.												
07...	--	--	--	205	6.6	18.0	--	<25	7.8	82	1.4	--
28...	146	36	20	205	6.5	10.0	30	<25	10.8	96	3.3	162
FEB.												
06...	--	--	--	80	6.4	12.0	--	<25	10.6	99	1.1	--
MAR.												
06...	98	22	19	99	6.3	12.0	50	<25	10.3	95	1.4	40
APR.												
10...	--	--	--	79	6.6	13.0	--	<25	9.6	91	1.3	133
MAY												
08...	--	--	--	71	6.6	21.0	--	6	7.9	88	1.2	67
JUNE												
05...	126	25	12	72	7.0	23.0	50	15	7.6	87	1.2	--
JULY												
10...	--	--	--	53	7.1	28.0	--	33	6.0	77	.6	420
31...	71	--	--	73	6.8	29.0	40	5	6.5	83	1.6	660
SEP.												
11...	--	--	--	88	7.1	28.0	--	4	7.5	95	1.2	350

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	--	5	3	2	<100	<5	10	2	<.1	<50	12
FEB.											
06...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
06...	7	0	7	<3	<7	--	<10	12	<.5	11	0
APR.											
10...	5	--	--	--	--	--	--	--	--	--	--
MAY											
08...	<5	--	--	--	--	--	--	--	--	--	--
JUNE											
05...	25	228	6	2	<14	--	<15	32	<.3	<2	9
JULY											
10...	5	--	--	--	--	--	--	--	--	--	--
31...	65	240	4	<2	<10	--	--	35	<.1	4	8
SEP.											
11...	20	--	--	--	--	--	--	--	--	--	--

07349453 Wheeler Creek near Arkana, Ark.

LOCATION.--Lat 33°01'47", long 93°38'36", in SW¼NW¼ sec.7, T.20 S., R.24 W., Lafayette County, at bridge on county road, 0.7 mi (1.1 km) north of Arkansas-Louisiana State line, and 1.9 mi (3.1 km) east of Arkana.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NON-FILTRABLE RESIDUE (MG/L)
OCT.												
10...	.00	--	--	--	--	12	--	3.0	--	--	--	--
NOV.												
07...	123	--	--	--	--	--	--	3.5	--	--	--	--
28...	13	300	<25	4.0	1.0	--	5.5	3.5	1.1	.07	79	6
FEB.												
06...	6.0	--	--	--	--	14	--	4.5	--	--	--	--
MAR.												
06...	29	740	63	5.0	2.0	12	2.0	3.5	.31	.08	92	16
APR.												
10...	10	--	--	--	--	16	--	4.5	--	--	--	--
MAY												
08...	.00	--	--	--	--	42	--	4.0	--	--	--	--
JUNE												
05...	.00	3750	1330	10	7.0	44	4.0	4.5	.32	.21	105	29
JULY												
10...	.00	--	--	--	--	46	--	8.5	--	--	--	--
31...	.00	3150	733	--	3.0	40	6.0	7.5	--	--	87	40
SEP.												
11...	.00	--	--	--	--	60	--	22	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
10...	--	--	--	86	6.4	--	--	28	3.6	--	1.2	--
NOV.												
07...	--	--	--	58	4.6	16.0	--	35	5.9	60	4.2	--
28...	85	14	10	48	5.7	8.0	80	<25	8.8	74	.7	337
FEB.												
06...	--	--	--	43	6.6	14.0	--	<25	6.8	66	1.1	--
MAR.												
06...	110	21	12	42	6.5	16.0	150	<25	5.5	55	1.5	788
APR.												
10...	--	--	--	51	6.8	8.0	--	25	8.3	70	2.3	7000
MAY												
08...	--	--	--	98	6.8	17.0	--	28	1.2	12	1.5	410
JUNE												
05...	134	54	24	91	7.2	21.0	100	40	1.6	18	3.6	2300
JULY												
10...	--	--	--	104	7.2	24.0	--	18	.5	7	3.5	1500
31...	127	--	--	97	7.0	24.0	80	31	1.6	19	2.8	7000
SEP.												
11...	--	--	--	180	7.0	24.0	--	15	1.6	20	3.3	7000

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
28...	26	75	<3	<2	<100	<5	37	2	<.1	<50	19
FEB.											
06...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
06...	145	--	10	3	<7	--	<10	69	<.2	26	16
APR.											
10...	980	--	--	--	--	--	--	--	--	--	--
MAY											
08...	27	--	--	--	--	--	--	--	--	--	--
JUNE											
05...	<2300	600	<3	2	<14	--	<15	23	<.3	100	41
JULY											
10...	6	--	--	--	--	--	--	--	--	--	--
31...	780	6000	<3	7	80	--	<10	37	<.9	15	18
SEP.											
11...	256	--	--	--	--	--	--	--	--	--	--

07349457 Dooley Creek near Arkansas-Louisiana State line

LOCATION.--Lat 33°01'35", long 93°34'45", in SW¼NE¼ sec.10, T.20 S., R.24 W., Lafayette County, at bridge on county road 0.6 mi (1.0 km) north of Arkansas-Louisiana State line, and 5.5 mi (8.8 km) east of Arkana.

PERIOD OF RECORD.--Chemical analyses: October 1968 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
NOV. 07...	216	--	--	--	--	8	--	22	--	--	--	--
28...	105	350	<25	4.0	1.0	5	7.3	10	<.10	.02	79	2
FEB. 06...	.10	--	--	--	--	10	--	7.0	--	--	--	--
MAR. 06...	160	690	63	3.0	2.0	11	4.0	5.5	1.9	.05	85	18
APR. 10...	45	--	--	--	--	16	--	7.5	--	--	--	--
MAY 08...	.20	--	--	--	--	41	--	32	--	--	--	--
JUNE 05...	.20	3120	3550	22	15	50	10	91	.48	.14	303	113
SEP. 11...	1.0	--	--	--	--	26	--	12	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
NOV. 07...	--	--	--	82	6.2	16.0	--	50	6.5	65	3.5	--
28...	81	14	10	45	6.1	8.0	100	<25	9.1	77	.8	600
FEB. 06...	--	--	--	49	6.5	13.0	--	<25	7.3	70	1.0	--
MAR. 06...	103	16	8.0	45	6.5	15.0	100	<25	6.3	62	1.6	940
APR. 10...	--	--	--	63	6.8	10.0	--	<25	8.4	75	1.6	1900
MAY 08...	--	--	--	209	6.7	18.0	--	33	1.4	15	1.5	840
JUNE 05...	416	120	54	406	7.4	21.0	75	80	3.4	38	29	--
SEP. 11...	--	--	--	96	6.9	25.0	--	28	2.6	31	1.8	3800

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV. 07...	--	--	--	--	--	--	--	--	--	--	--
28...	40	85	3	2	<100	<5	62	3	<.1	<50	52
FEB. 06...	--	--	--	--	--	--	--	--	--	--	--
MAR. 06...	220	147	14	<3	<7	--	<10	77	<.4	17	30
APR. 10...	387	--	--	--	--	--	--	--	--	--	--
MAY 08...	37	--	--	--	--	--	--	--	--	--	--
JUNE 05...	3550	--	<3	5	<14	--	<15	43	<.3	<60	29
SEP. 11...	85	--	--	--	--	--	--	--	--	--	--

07356050 Ouachita River near Gibbs, Ark.

LOCATION.--Lat 34°38'20", long 93°36'55", in SE¼SE¼ sec.24, T.1 S., R.25 W., Montgomery County, at left bank, 1.5 mi (2.4 km) southeast of Gibbs.

PERIOD OF RECORD.--Chemical analyses: August 1972 to July 1974.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG.				
17...	72	8.6	32.0	11.4
OCT.				
05...	50	7.1	24.2	9.9
NOV.				
05...	38	6.4	16.9	8.4
DEC.				
09...	42	6.8	5.9	13.4
JAN.				
21...	49	6.9	9.0	13.8
FEB.				
23...	41	6.7	8.9	15.0
MAR.				
30...	45	6.7	9.5	9.8
MAY				
17...	53	6.6	18.0	10.2
JUNE				
21...	52	6.9	25.0	7.6
JULY				
26...	80	8.5	29.0	7.8

07356320 Irons Fork near Fannie, Ark.

LOCATION.--Lat 34°41'27", long 93°24'44", in NE¼SE¼ sec.35, T.1 N., R.23 W., Montgomery County, at bridge on State Highway 298, and 2.2 mi (3.5 km) east of Fannie.

DRAINAGE AREA.--72.2 mi² (187.0 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT- ANCE (MICRO- MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG.				
17...	155	8.1	27.0	10.6
OCT.				
05...	25	6.8	22.0	10.6
NOV.				
05...	31	6.9	15.9	6.3
DEC.				
09...	35	6.4	5.7	13.4
JAN.				
21...	35	6.4	8.9	14.0
FEB.				
23...	29	6.7	9.7	14.9
MAR.				
30...	32	6.6	8.0	9.6
MAY				
17...	34	6.7	17.1	11.8
JUNE				
21...	44	6.9	28.0	9.2
JULY				
26...	50	7.0	29.8	8.4

07356500 South Fork Ouachita River at Mount Ida, Ark.

LOCATION.--Lat 34°33'36", long 93°38'16", in NE¼NE¼ sec.23, T.2 S., R.25 W., Montgomery County, at gaging station near right bank on downstream side of bridge on U.S. Highway 270 at Mount Ida, 3.4 mi (5.5 km) upstream from Williams Creek, and at mile 22.5 (36.2 km).

DRAINAGE AREA.--64 mi² (166 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG. 17...	227	7.6	28.8	8.5
OCT. 05...	80	7.0	20.0	10.0
NOV. 05...	110	7.4	13.5	9.6
DEC. 09...	79	7.3	6.0	12.2
JAN. 21...	55	7.0	9.1	12.8
FEB. 23...	119	7.6	10.1	15.6
MAR. 30...	90	7.2	13.8	9.8
MAY 17...	155	7.4	16.5	10.6
JUNE 21...	170	7.4	25.0	9.4
JULY 26...	212	8.5	30.0	12.2

07357500 Lake Ouachita near Hot Springs, Ark.

LOCATION.--Lat 34°34'20", long 93°11'50", in NW¼ sec.12, T.2 S., R.21 W., Garland County, at Blakely Mountain Dam on Ouachita River, 3.0 mi (4.8 km) upstream from Glazypeau Creek, 3.8 mi (6.1 km) downstream from Mill Creek, 10 mi (16.1 km) northwest of Hot Springs, and at mile 487.0 (783.6 km).

DRAINAGE AREA.--1,105 mi² (2,862 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1973.
Water temperatures: May 1965 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG. 17...	0	70	7.4	29.2	8.2	NOV. 15...	0	58	7.1	17.1	8.1
	2	70	7.4	29.2	8.2		2	58	7.1	17.1	8.2
	4	70	7.4	28.6	7.7		4	59	7.1	17.0	7.9
	6	70	7.4	27.9	6.5		6	60	7.1	17.0	7.7
	8	69	7.3	25.9	5.9		8	60	7.1	16.9	7.9
	10	60	7.0	20.2	5.5		10	61	7.1	16.9	7.9
	12	57	6.9	16.2	4.8		12	61	7.1	16.9	8.1
	14	56	6.9	13.6	5.9		14	62	7.0	16.9	7.3
	16	54	6.9	11.1	5.6		16	62	6.8	16.5	5.7
	18	54	6.9	10.1	5.7		18	59	6.3	12.5	1.1
	20	53	6.8	9.0	5.9		20	58	6.3	11.0	1.8
	22	53	6.8	8.7	6.1		22	55	6.2	9.8	2.5
	24	56	6.8	8.3	6.2		24	58	6.2	9.0	3.0
	26	57	6.7	8.1	6.6		26	58	6.2	8.9	3.4
	28	58	6.7	7.9	6.0		28	60	6.3	8.5	3.6
	30	58	6.7	7.8	5.8		30	60	6.2	8.1	3.6
	32	59	6.7	7.8	5.6		32	60	6.2	8.1	3.4
	34	62	6.7	7.8	5.3		34	61	6.3	8.0	3.1
	36	62	6.7	7.8	2.2		36	62	6.4	8.0	2.9
	38	62	6.7	7.8	5.0		38	62	6.4	8.0	2.6
	40	62	6.7	7.8	5.0		40	63	6.4	8.0	2.6
	42	62	6.7	7.8	5.0		42	65	6.3	8.0	2.6
	44	64	6.7	7.8	1.3		44	65	6.2	8.0	2.3
	46	82	6.7	7.8	.5		46	78	--	8.0	1.4
OCT. 05...	0	65	7.6	25.0	9.0	DEC. 09...	0	59	6.8	10.8	10.0
	2	65	7.6	24.2	9.2		2	59	6.9	10.9	9.7
	4	65	7.5	24.0	9.0		4	60	6.9	10.8	9.8
	6	64	7.4	23.9	8.9		6	61	6.9	10.8	9.8
	8	62	7.4	23.9	8.9		8	61	6.9	10.8	9.7
	10	60	7.2	23.8	8.5		10	61	6.9	10.8	9.8
	12	53	6.6	19.6	2.8		12	63	6.9	10.8	9.7
	14	53	6.8	15.2	2.6		14	63	6.9	10.8	9.6
	16	54	6.8	12.5	3.2		16	63	6.9	10.8	9.7
	18	55	6.8	10.9	3.5		18	68	6.9	10.8	9.5
	20	55	6.8	9.9	4.2		20	68	6.9	10.8	9.5
	22	54	6.8	9.2	4.6		22	68	6.6	10.8	9.4
	24	54	6.8	8.9	5.0		24	68	6.4	10.8	2.6
	26	55	6.8	8.5	5.1		26	68	6.4	9.4	2.2
	28	56	6.7	8.3	5.0		28	68	6.4	9.1	2.1
	30	58	6.7	8.1	4.7		30	69	6.4	9.0	2.2
	32	58	6.7	8.0	4.4		32	70	6.4	8.9	2.3
	34	60	6.7	8.0	4.2		34	70	6.4	8.9	2.2
	36	60	6.7	8.0	3.4		36	71	6.4	8.9	2.0
	38	64	6.7	8.1	3.3		38	71	6.4	8.9	1.9
	40	65	6.7	8.0	3.2		40	71	6.4	8.9	1.9
	42	66	6.7	8.0	3.1		42	71	6.4	8.9	1.9
	44	70	6.8	8.0	3.3		44	73	6.4	8.9	1.8
	46	78	6.8	8.0	3.2		46	73	6.3	8.9	1.7
	48	89	6.8	--	3.0		48	75	6.3	8.9	1.7

07357500 Lake Ouachita near Hot Springs, Ark.--Continued

CHEMICAL ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
JAN. 21...	0	55	6.9	8.0	13.0	MAR. 30...	0	49	6.8	11.7	10.6
	2	57	7.0	8.0	12.2		2	50	6.8	11.7	10.6
	4	58	7.0	8.0	12.0		4	50	6.8	11.7	10.4
	6	58	7.0	7.8	11.8		6	51	6.8	11.7	10.4
	8	59	7.0	7.8	11.6		8	51	6.8	11.5	10.2
	10	60	6.9	7.8	11.6		10	52	6.8	11.1	10.2
	12	60	6.9	7.8	11.5		12	55	6.8	10.9	10.2
	14	61	6.9	7.4	11.4		14	55	6.8	10.9	10.2
	16	61	6.9	7.1	11.0		16	55	6.8	10.9	10.1
	18	65	6.8	7.0	11.0		18	55	6.8	10.9	10.0
	20	65	6.8	7.0	10.8		20	59	6.8	10.9	10.0
	22	65	6.8	7.0	10.8		22	59	6.7	8.0	10.0
	24	65	6.8	7.0	10.8		24	59	6.7	7.7	10.1
	26	65	6.8	7.0	10.8		26	59	6.7	7.5	9.9
	28	66	6.8	7.0	11.0		28	59	6.7	7.5	9.9
	30	66	6.8	7.0	11.0		30	59	6.7	7.2	9.9
	32	66	6.8	7.0	10.8		32	60	6.8	7.1	9.9
	34	68	6.8	7.0	10.8		34	60	6.8	7.1	10.0
	36	68	6.8	7.0	11.2		36	60	6.8	7.1	10.0
	38	68	6.8	6.9	11.0		38	61	6.8	7.1	10.0
	40	68	6.8	6.9	11.0		40	61	6.8	7.1	9.9
	42	68	6.8	6.9	11.0		42	62	6.8	7.1	9.9
	44	68	6.8	6.9	11.0		44	65	6.8	7.1	9.9
	46	69	6.8	6.9	11.0		46	65	6.7	7.1	9.9
	48	72	6.8	6.9	1.1		48	65	6.7	7.1	9.9
	50	72	6.7	6.9	.8		50	67	6.7	7.1	9.9
	52	--	--	--	--		52	67	6.7	7.1	--
	54	--	--	--	--		54	69	6.7	7.1	--
	56	--	--	--	--		56	69	6.6	--	--
	58	--	--	--	--		58	69	6.6	--	--
FEB. 23...	0	51	7.0	9.5	13.2	MAY 17...	0	54	7.6	22.5	10.4
	2	52	7.0	8.2	13.8		2	54	7.6	22.1	10.4
	4	54	7.0	7.5	13.7		4	54	7.6	21.9	10.4
	6	54	7.0	7.2	13.6		6	54	7.5	21.1	10.3
	8	54	7.0	6.9	13.3		8	54	7.5	20.1	10.2
	10	55	7.0	6.7	13.3		10	52	6.9	17.4	9.2
	12	55	6.9	6.7	13.2		12	52	6.9	14.9	9.1
	14	56	6.9	6.7	13.4		14	52	6.8	12.0	9.6
	16	58	6.9	6.5	13.2		16	52	6.8	11.5	9.8
	18	58	6.9	6.3	13.2		18	52	6.8	10.9	9.8
	20	59	6.9	6.3	12.9		20	52	6.8	10.2	9.8
	22	59	6.9	6.2	12.9		22	52	6.8	9.8	9.8
	24	59	6.8	6.2	12.9		24	52	6.8	8.0	9.8
	26	60	6.8	6.2	12.9		26	52	6.8	7.4	9.9
	28	60	6.8	6.2	12.9		28	52	6.8	7.1	9.9
	30	60	6.8	6.2	12.8		30	52	6.8	6.9	9.9
	32	61	6.9	6.2	12.8		32	53	6.8	6.9	9.6
	34	61	6.9	6.2	12.8		34	55	6.8	6.8	9.5
	36	62	6.9	6.2	12.8		36	57	6.7	6.8	9.4
	38	62	7.0	6.1	12.6		38	59	6.7	6.8	9.2
	40	62	7.0	6.1	12.6		40	59	6.7	6.8	9.1
	42	65	6.9	6.1	12.4		42	59	6.7	6.8	9.1
	44	65	7.0	6.1	12.4		44	59	6.7	6.8	9.1
	46	65	6.9	6.1	12.6		46	60	6.7	6.8	8.9
	48	65	6.9	6.1	12.2		48	61	6.7	6.8	8.9
	50	65	6.9	6.1	12.5		50	61	6.7	6.8	8.8
	52	65	--	6.1	--		52	61	6.7	6.8	8.8
	54	66	--	6.1	--		54	61	6.7	6.8	8.8
	55	--	--	--	--		55	--	--	--	8.8
	56	--	--	--	--		56	61	6.6	--	8.7
	58	--	--	--	--		58	64	6.5	--	--

07357500 Lake Ouachita near Hot Springs, Ark.--Continued

CHEMICAL ANALYSES, AUGUST 1972 TO SEPTEMBER 1973

DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
JUNE 21...	0	65	7.5	29.0	8.4	JULY 26...	0	72	8.5	31.0	10.2
	2	65	7.6	28.0	8.7		2	71	8.5	30.0	9.5
	4	67	7.5	27.5	8.4		4	72	8.5	29.1	9.8
	6	62	7.2	26.0	5.9		6	70	8.5	27.0	10.2
	8	60	6.6	21.5	5.5		8	70	8.6	24.0	8.8
	10	60	6.6	20.0	5.5		10	69	6.6	20.5	7.6
	12	60	6.9	19.0	5.6		12	67	6.6	18.0	7.4
	14	60	6.9	17.0	6.5		14	65	6.6	16.0	9.2
	16	60	6.9	15.0	7.2		16	64	6.6	14.2	5.8
	18	59	6.9	13.5	7.5		18	64	6.6	12.0	7.4
	20	58	6.9	12.1	7.6		20	60	6.7	11.0	7.8
	22	59	6.9	11.5	7.7		22	60	6.7	10.0	8.6
	24	59	6.9	10.0	7.7		24	60	6.9	9.0	8.4
	26	59	6.9	9.0	7.7		26	60	6.9	8.2	8.6
	28	59	6.9	8.0	7.6		28	60	6.9	7.5	8.6
	30	60	6.8	7.5	7.6		30	60	6.9	7.0	8.4
	32	60	6.8	7.3	7.5		32	62	6.9	6.8	8.4
	34	60	6.5	7.2	7.5		34	62	6.9	6.5	8.2
	36	60	6.5	7.0	7.4		36	62	6.9	6.5	8.2
	38	60	6.6	7.0	7.4		38	62	6.7	6.5	8.0
	40	61	6.6	7.0	7.4		40	62	6.7	6.5	8.0
	42	62	6.6	7.0	7.3		42	62	6.7	6.5	7.9
	44	62	6.6	7.0	7.3		44	62	6.6	6.5	7.8
	46	65	6.6	7.0	7.2		46	62	6.6	6.2	7.8
	48	65	6.6	7.0	7.2		48	65	6.7	6.2	7.8
	50	66	6.6	7.0	7.2		50	64	6.7	6.2	7.8
	52	66	6.6	7.0	7.1		52	60	6.7	6.5	4.2
	54	67	6.6	7.0	6.8		54	60	6.7	6.5	--
	55	--	--	--	4.0		55	--	--	--	--
	56	67	--	--	--		56	--	--	--	--

07357501 Ouachita River at Blakely Mountain Dam, near Hot Springs, Ark.

LOCATION.--Lat 34°31'17", long 93°11'23", in NE¼ sec.12, T.2 S., R.21 W., Garland County, at gaging station in outlet of power tunnel at Blakely Mountain Dam, 2.3 mi (3.7 km) upstream from Glazypeau Creek, 10 mi (16.1 km) northwest of Hot Springs, and at mile 486.9 (783.4 km).

DRAINAGE AREA.--1,105 mi² (2,862 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG.				
17...	50	6.8	11.3	7.8
OCT.				
05...	65	6.8	13.1	5.2
NOV.				
05...	51	6.3	12.2	4.8
DEC.				
09...	58	6.8	10.0	9.8
JAN.				
21...	70	6.7	9.0	12.8
FEB.				
23...	50	6.9	7.0	14.0
MAR.				
30...	50	7.7	10.0	10.4
MAY				
17...	47	6.5	11.5	10.2
JUNE				
21...	51	6.4	14.0	8.4
JULY				
26...	53	6.5	15.0	8.5

07359500 Ouachita River near Malvern, Ark.

LOCATION.--Lat 34°23'10", long 92°50'20", in NW¼ sec.16, T.4 S., R.17 W., Hot Spring County, at gaging station near right bank on downstream side of bridge on State Highway 84, 2 mi (3.2 km) northwest of Malvern, 5.8 mi (9.3 km) downstream from Remmel Dam, and at mile 450.1 (724.2 km).

DRAINAGE AREA.--1,562 mi² (4,046 km²).

PERIOD OF RECORD.--Chemical analyses: October 1946 to September 1950, October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
04...	130	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	5	--	26	--	--	--	--
NOV.												
06...	4630	--	--	--	--	16	--	36	--	--	--	--
15...	8630	--	--	--	--	16	--	9.5	--	--	--	--
DEC.												
05...	5740	--	--	6.0	2.0	17	19	8.0	.20	.02	57	13
18...	8170	--	--	--	--	18	--	8.0	--	--	--	--
JAN.												
22...	11300	--	--	--	--	16	--	8.0	--	--	--	--
FEB.												
05...	6200	--	--	--	--	16	--	5.5	--	--	--	--
15...	5130	--	--	--	--	18	--	10	--	--	--	--
MAR.												
12...	--	280	140	6.0	1.0	16	11	6.5	.20	.13	53	37
13...	--	--	--	--	--	--	--	--	--	--	--	--
16...	7610	--	--	--	--	--	--	--	--	--	--	--
26...	9120	--	--	--	--	16	--	6.5	--	--	--	--
APR.												
09...	10100	--	--	--	--	18	--	16	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--
24...	13500	--	--	--	--	12	--	6.0	--	--	--	--
MAY												
07...	5600	--	--	--	--	15	--	4.5	--	--	--	--
16...	7600	--	--	--	--	20	--	3.0	--	--	--	--
JUNE												
12...	7600	210	130	7.0	1.0	16	7.0	5.0	.17	.03	53	7
25...	161	--	--	--	--	17	--	3.0	--	--	--	--
JULY												
07...	--	--	--	--	--	--	--	--	--	--	--	--
09...	1640	--	--	--	--	15	--	16	--	--	--	--
23...	2040	--	--	--	--	17	--	6.5	--	--	--	--
AUG.												
07...	--	155	86	7.0	3.0	18	7.0	6.5	.20	.03	60	6
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	3140	--	--	--	--	18	--	16	--	--	--	--
SEP.												
10...	3250	--	--	--	--	17	--	13	--	--	--	--
24...	3160	--	--	--	--	19	--	25	--	--	--	--

07359100 Ouachita River near Malvern, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)
OCT.											
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	191	6.5	23.0	--	12	5.8	67	3.0
NOV.											
08...	--	--	--	159	6.6	25.0	--	40	7.6	91	2.2
15...	--	--	--	79	7.0	14.0	--	65	8.4	81	.8
DEC.											
05...	70	23	16	91	6.5	12.0	5	<25	9.6	87	2.7
18...	--	--	--	62	6.7	9.0	--	<25	11.8	102	2.1
JAN.											
22...	--	--	--	62	6.8	9.0	--	<25	11.6	98	1.6
FEB.											
05...	--	--	--	76	6.7	10.0	--	<25	10.4	92	1.7
15...	--	--	--	113	6.9	9.0	--	<25	10.5	91	.6
MAR.											
12...	80	19	16	70	6.6	15.0	20	35	10.5	103	1.2
13...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	69	7.0	12.0	--	<25	10.7	100	.7
APR.											
09...	--	--	--	85	7.2	14.0	--	<25	10.7	95	.9
23...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	68	6.8	16.0	--	60	10.1	101	1.0
MAY											
07...	--	--	--	73	6.7	17.0	--	11	8.9	92	1.7
16...	--	--	--	68	7.2	19.0	--	6	10.1	107	.7
JUNE											
12...	60	22	18	61	6.9	21.0	5	6	9.0	98	1.0
25...	--	--	--	51	6.9	23.0	--	4	8.2	95	.2
JULY											
07...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	67	6.6	26.0	--	4	6.5	78	1.4
23...	--	--	--	77	6.7	22.0	--	8	6.1	70	.7
AUG.											
07...	60	30	18	65	6.9	23.0	5	4	5.5	66	.6
24...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	136	6.9	26.0	--	3	6.4	75	2.0
SEP.											
10...	--	--	--	82	6.5	22.5	--	8	6.8	58	1.5
24...	--	--	--	134	6.9	25.0	--	3	5.3	63	.0

DATE	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
09...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
08...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
05...	233	2	4	<3	--	--	--	--	<.1	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
05...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
12...	--	--	--	5	5	<10	60	750	<.5	5	20
13...	690	172	105	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
APR.											
09...	200	13	--	--	--	--	--	--	--	--	--
23...	2000	560	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--
MAY											
07...	100	13	--	--	--	--	--	--	--	--	--
16...	330	13	--	--	--	--	--	--	--	--	--
JUNE											
12...	--	--	190	<3	3	<10	<15	20	<.5	<2	7
25...	70	<6	--	--	--	--	--	--	--	--	--
JULY											
07...	1020	18	26	--	--	--	--	--	--	--	--
09...	150	18	--	--	--	--	--	--	--	--	--
23...	60	10	--	--	--	--	--	--	--	--	--
AUG.											
07...	--	--	--	3	6	<15	22	21	<.0	<8	16
24...	166	10	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
10...	1600	75	--	--	--	--	--	--	--	--	--
24...	<12	<6	--	--	--	--	--	--	--	--	--

07338700 Caddo River near Amity, Ark.

LOCATION.--Lat 34°17'03", long 93°24'56", in NW¼SE¼ sec.24, T.5 S., R.23 W., Clark County, at bridge on State Highway 84, 2.9 mi (4.7 km) northeast of Amity, Ark.

PERIOD OF RECORD.--Chemical analyses: August 1972 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
AUG.					
22...	134	7.5	27.0	6.8	1.3
SEP.					
30...	48	7.2	16.5	8.7	1.3
NOV.					
14...	48	6.0	12.0	10.0	3.1
DEC.					
20...	45	6.8	4.5	8.5	1.5
JAN.					
22...	35	6.8	5.1	10.6	1.5
MAR.					
05...	52	6.9	12.0	11.5	1.0
APR.					
20...	30	6.8	16.0	10.4	1.1
MAY					
22...	--	--	21.5	12.4	1.4
JUNE					
20...	100	8.0	25.0	8.0	.8
JULY					
31...	96	8.5	25.3	11.3	8.1

07359000 DeGray Lake near Arkadelphia, Ark.

LOCATION.--Lat 34°12'14", long 93°06'46", in NW¼NW¼ sec.14, T.6 S., R.20 W., Clark County, at DeGray Dam on Caddo River, 2.5 mi (4.0 km) upstream from DeGray Creek, 3.3 mi (5.3 km) northwest of Caddo Valley, 7.4 mi (11.9 km) northwest of Arkadelphia, and at mile 7.9 (12.7 km).

DRAINAGE AREA.--453 mi^2 (1,173 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1972 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	DEPTH (M)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	DATE	DEPTH (M)	SPECIFIC CONDUCTANCE (MCROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
AUG., 14...	0	89	7.3	32.5	8.9	--	SEP., 30...	0	81	7.3	24.3	9.7	3.2
	2	88	7.3	31.2	8.8	--		2	81	7.3	24.2	9.2	--
	4	88	7.3	30.0	8.8	--		4	82	7.2	24.1	8.8	--
	6	87	7.3	28.3	7.5	--		6	82	7.0	24.1	8.5	--
	8	73	7.1	20.7	2.2	--		8	85	6.9	23.8	7.3	--
	10	69	6.7	16.2	1.3	--		10	73	6.5	15.5	1.3	4.2
	12	68	6.7	13.0	1.5	--		12	70	6.5	12.2	.7	--
	14	67	6.7	11.0	1.6	--		14	69	6.4	10.9	.5	--
	16	65	6.7	9.9	2.2	--		16	68	6.4	9.9	.4	--
	18	65	6.7	9.2	2.2	--		18	69	6.4	9.4	.3	--
	20	66	6.7	9.0	1.5	--		20	69	6.4	9.1	.3	3.2
	22	67	6.7	8.7	1.4	--		22	70	6.4	8.9	.2	--
	24	68	6.7	8.4	1.7	--		24	70	6.4	8.6	.1	--
	26	68	6.7	8.2	1.5	--		26	71	6.4	8.5	.0	--
	28	69	6.7	8.1	1.2	--		28	71	6.4	8.4	.0	--
	30	69	6.7	8.0	1.1	--		30	73	6.4	8.3	.0	3.2
	32	70	6.7	8.0	1.1	--		32	77	6.4	8.2	.0	--
	34	71	6.7	8.0	1.0	--		34	77	6.4	8.2	.0	--
	36	72	6.7	8.0	.9	--		36	78	6.5	8.1	.0	--
	38	72	6.7	8.0	.9	--		38	78	6.4	8.1	.0	--
	40	73	6.7	8.0	.8	--		40	79	6.4	8.0	.0	3.7
	42	76	6.7	8.0	.7	--		42	86	6.5	8.0	.0	--
	44	85	6.7	8.0	.6	--		44	102	6.7	8.1	.0	--
	46	94	6.7	8.0	.6	--		46	114	6.7	8.2	.0	--
	48	109	6.7	8.1	.4	--		48	122	6.8	8.3	.0	--
	50	114	6.7	8.2	.4	--		50	137	6.9	8.5	.0	4.3
	52	165	6.7	8.2	.5	--		52	262	6.9	8.6	.0	--
	54	205	6.7	8.3	.4	--		54	267	6.9	8.6	.0	--
	56	213	6.7	8.8	.5	--		56	--	--	--	.0	--
	58	340	6.7	8.8	.5	--		58	--	--	--	.0	--
AUG., 21...	0	87	7.5	31.3	8.7	1.0	NOV., 15...	0	60	7.0	15.2	8.7	1.0
	2	89	7.4	31.0	9.2	--		2	64	7.0	15.3	8.5	--
	4	88	7.4	29.5	8.5	--		4	66	7.0	15.2	8.4	--
	6	88	7.4	29.1	8.3	--		6	68	7.0	15.2	8.4	--
	8	78	7.4	27.3	1.9	--		8	69	7.0	15.2	8.3	--
	10	69	6.7	15.9	.5	1.0		10	70	7.0	15.1	8.3	.8
	12	68	6.8	11.2	.6	--		12	71	7.0	11.8	8.2	--
	14	67	6.8	10.0	.8	--		14	71	6.8	10.5	8.2	--
	16	64	6.8	9.5	.8	--		16	78	6.6	9.9	.6	--
	18	65	6.8	9.0	1.0	--		18	79	6.6	9.5	.3	--
	20	65	6.8	8.7	.8	.7		20	78	6.5	9.0	.2	1.0
	22	66	6.8	8.5	.6	--		22	78	6.5	8.9	.2	--
	24	68	6.8	8.2	.6	--		24	78	6.5	8.8	.2	--
	26	68	6.8	8.1	.5	--		26	78	6.5	8.8	.2	--
	28	68	6.8	8.0	.5	--		28	79	6.5	8.6	.1	--
	30	69	6.7	8.0	.4	.5		30	80	6.5	8.6	.1	1.0
	32	69	6.7	8.0	.2	--		32	81	6.5	8.4	.1	--
	34	70	6.7	8.0	.1	--		34	81	6.5	8.3	.1	--
	36	71	6.7	8.0	.1	--		36	82	6.5	8.3	.1	--
	38	71	6.8	8.0	.1	--		38	84	6.5	8.2	.1	--
	40	73	6.9	8.0	.0	.5		40	88	6.5	8.2	.1	1.0
	42	77	6.9	8.0	.0	--		42	95	6.6	8.3	.1	--
	44	88	6.9	8.0	.0	--		44	102	6.6	8.6	.0	--
	46	107	6.9	8.0	.0	--		46	110	6.7	8.7	.0	--
	48	115	6.9	8.2	.0	--		48	119	6.7	8.7	.0	--
	50	122	6.9	8.2	.0	2.2		50	124	6.7	8.8	.0	1.0
	52	126	6.9	8.2	.0	--		52	130	6.7	--	.0	--
	54	180	6.9	8.4	.0	--		54	136	6.7	--	.0	--
	56	179	7.0	8.6	.0	--		56	--	--	--	--	--
	58	--	7.0	--	.0	--		58	--	--	--	--	--

07359900 DeGray Lake near Arkadelphia, Ark.--Continued

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	DEPTH (M)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
DEC. 16...	0	68	6.6	7.5	4.8	1.3
	2	65	6.6	8.0	4.7	--
	4	66	6.6	8.0	4.6	--
	6	68	6.6	8.0	4.6	--
	8	69	6.6	8.0	4.7	--
	10	70	6.6	8.0	4.7	1.1
	12	71	6.6	8.0	4.7	--
	14	72	6.6	8.0	4.7	--
	16	73	6.6	8.0	4.7	--
	18	73	6.6	8.0	4.7	--
	20	76	6.6	8.0	4.7	1.1
	22	75	6.6	8.0	4.7	--
	24	76	6.6	8.0	4.7	--
	26	76	6.6	8.0	4.7	--
	28	78	6.6	8.0	4.7	--
	30	79	6.7	8.0	4.7	1.2
	32	79	6.7	8.0	4.7	--
	34	79	6.7	8.0	4.7	--
	36	80	6.7	8.0	4.7	--
	38	80	6.7	8.0	4.7	--
	40	80	6.7	8.0	4.7	.6
	42	81	6.7	8.1	5.0	--
	44	81	6.7	8.1	4.9	--
	46	82	6.7	8.1	5.0	--
	48	83	6.7	8.1	5.1	--
	50	84	6.7	8.0	5.1	1.4
	52	85	6.7	8.0	5.0	--
	54	--	6.7	--	5.0	--
	56	--	--	--	--	--
	58	--	--	--	--	--
JAN. 15...	0	52	6.7	8.2	10.4	5.7
	2	52	6.7	7.3	9.6	--
	4	52	6.7	6.5	9.5	--
	6	55	6.7	6.5	9.2	--
	8	56	6.7	6.3	9.6	--
	10	56	6.7	6.2	9.4	3.5
	12	58	6.7	6.2	9.1	--
	14	59	6.7	6.2	9.3	--
	16	60	6.6	6.3	9.2	--
	18	61	6.7	6.4	9.3	--
	20	62	6.7	6.4	9.0	3.0
	22	63	6.7	6.3	9.3	--
	24	64	6.7	6.3	9.6	--
	26	65	6.7	6.3	9.5	--
	28	65	6.7	6.3	9.2	--
	30	67	6.7	6.2	8.9	2.6
	32	67	6.7	6.2	9.2	--
	34	68	6.7	6.2	8.9	--
	36	69	6.7	6.2	9.2	--
	38	69	6.7	6.2	9.5	--
	40	69	6.8	6.2	9.4	2.9
	42	70	6.8	6.2	9.4	--
	44	70	6.8	6.2	9.5	--
	46	71	6.8	6.2	9.2	--
	48	71	6.8	6.2	9.6	--
	50	72	6.8	6.2	9.7	3.4
	52	72	6.8	6.2	9.5	--
	54	72	6.8	--	9.6	--
	56	72	6.8	--	9.8	--
	58	--	--	--	9.6	--
MAR. 10...	0	52	7.0	11.0	14.0	1.8
	2	54	7.0	11.0	13.6	--
	4	52	6.9	9.5	13.4	--
	6	52	7.0	8.5	13.0	--
	8	55	6.9	8.3	12.6	--
	10	56	6.9	7.8	12.6	1.2
	12	56	6.9	7.3	12.2	--
	14	56	6.8	6.7	11.8	--
	16	58	6.8	6.7	11.5	--
	18	59	6.8	6.9	11.2	--
	20	60	6.9	7.0	11.4	1.2
	22	60	6.8	6.6	11.2	--
	24	62	6.8	6.6	11.3	--
	26	64	6.8	6.5	11.3	--
	28	65	6.8	6.5	11.2	--
	30	65	6.8	6.5	11.2	1.5
	32	65	6.9	6.5	11.0	--
	34	66	6.8	6.4	11.1	--
	36	66	6.8	6.5	11.0	--
	38	67	6.8	6.4	11.2	--
	40	67	6.8	6.4	10.7	1.4
	42	68	6.8	6.4	10.9	--
	44	68	6.8	6.3	10.9	--
	46	69	6.8	6.4	10.9	--
	48	69	6.9	6.3	10.8	--
	50	69	6.9	6.4	10.8	2.1
	52	70	6.9	6.3	10.8	--
	54	70	6.9	6.2	10.8	--
	56	--	--	--	--	--
	58	--	--	--	--	--
APR. 14...	0	45	7.0	13.0	11.8	1.5
	2	45	7.0	12.5	11.0	--
	4	47	7.0	12.2	10.9	--
	6	48	7.0	12.0	10.2	--
	8	48	6.9	11.9	10.4	--
	10	49	6.9	11.5	10.2	1.8
	12	50	6.8	11.5	10.3	--
	14	50	6.7	11.2	10.1	--
	16	50	6.6	10.0	9.6	--
	18	51	6.6	8.0	8.6	--
	20	52	6.6	7.1	8.5	1.1
	22	52	6.6	7.2	8.5	--
	24	52	6.6	7.0	8.4	--
	26	53	6.6	6.9	8.5	--
	28	53	6.6	6.9	8.5	--
	30	53	6.6	6.8	8.5	2.0
	32	55	6.6	6.6	8.6	--
	34	56	6.6	6.5	8.6	--
	36	58	6.6	6.5	8.6	--
	38	59	6.6	6.5	8.8	--
	40	59	6.6	6.5	8.7	1.1
	42	59	6.6	6.5	8.6	--
	44	59	6.6	6.5	8.8	--
	46	60	6.6	6.5	8.8	--
	48	60	6.6	6.4	8.8	--
	50	60	6.6	6.5	8.8	1.6
	52	60	6.5	6.5	8.8	--
	54	61	6.5	6.4	8.8	--
	56	61	--	6.5	8.8	--
	58	--	--	--	8.8	--

07359900 DeGray Lake near Arkadelphia, Ark.--Continued

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	DEPTH (M)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
MAY 14...	0	48	7.6	21.4	12.0	3.0
	2	49	7.6	21.2	12.0	--
	4	46	7.1	21.0	11.6	--
	6	50	7.1	19.7	10.5	--
	8	50	7.1	16.7	8.9	--
	10	51	6.7	14.5	9.0	3.6
	12	55	6.7	13.6	9.4	--
	14	54	6.7	12.4	9.6	--
	16	55	6.7	11.3	9.5	--
	18	57	6.7	9.0	8.1	--
	20	58	6.6	8.1	8.0	2.1
	22	59	6.6	7.8	8.0	--
	24	59	6.6	7.7	8.1	--
	26	60	6.6	7.3	8.3	--
	28	61	6.6	7.2	8.3	--
	30	61	6.7	7.1	8.2	3.0
	32	62	6.7	7.0	7.9	--
	34	62	6.7	7.0	7.9	--
	36	62	6.7	7.0	7.9	--
	38	63	6.7	7.0	7.8	--
	40	64	6.6	6.9	7.8	2.1
	42	66	6.6	6.9	7.8	--
	44	67	6.6	6.9	7.7	--
	46	68	6.6	6.9	7.6	--
	48	68	6.6	6.8	7.6	--
	50	68	6.6	6.7	7.6	2.4
	52	69	6.6	6.8	7.5	--
	54	69	6.6	6.9	7.4	--
	56	70	6.5	6.9	7.4	--
	58	--	--	6.9	--	--
JUNE 19...	0	52	7.4	26.1	8.6	.0
	2	51	7.4	26.2	8.4	--
	4	54	7.4	26.2	8.5	--
	6	51	6.8	22.0	5.0	--
	8	51	6.8	18.9	4.1	--
	10	52	6.8	15.5	5.0	.0
	12	53	6.3	13.5	4.1	--
	14	55	6.3	11.2	5.0	--
	16	58	6.5	9.0	6.2	--
	18	59	6.5	8.1	6.7	--
	20	60	6.6	7.9	6.0	1.7
	22	60	6.6	7.5	5.9	--
	24	60	6.6	7.1	5.8	--
	26	61	6.6	7.1	5.8	--
	28	61	6.6	7.0	6.0	--
	30	62	6.5	6.9	6.1	.0
	32	63	6.5	7.0	6.2	--
	34	63	6.5	7.0	6.2	--
	36	64	6.5	7.0	6.3	--
	38	65	6.5	6.9	6.3	--
	40	65	6.4	6.9	6.2	.2
	42	66	6.4	6.9	5.9	--
	44	67	6.4	6.9	6.0	--
	46	68	6.4	6.9	6.2	--
	48	68	6.4	6.9	5.9	--
	50	69	6.5	6.9	5.8	.0
	52	69	6.5	6.9	5.7	--
	54	70	6.5	6.9	5.8	--
	56	70	6.8	--	5.6	--
	58	--	--	--	4.6	--
JULY 31...	0	78	7.8	30.5	11.4	8.8
	2	78	7.7	30.2	11.2	--
	4	80	6.7	30.0	9.6	--
	6	79	6.6	26.1	1.3	--
	8	75	6.5	21.5	.9	--
	10	74	6.4	18.8	3.0	11.0
	12	75	6.5	16.2	6.0	--
	14	76	6.8	14.5	7.2	--
	16	76	6.8	13.2	7.3	--
	18	78	6.7	12.1	7.1	--
	20	79	6.7	11.8	6.8	8.8
	22	80	6.7	11.2	6.9	--
	24	80	6.7	11.1	6.7	--
	26	82	6.6	10.9	6.8	--
	28	84	6.6	10.9	6.9	--
	30	85	6.7	10.6	6.9	9.0
	32	84	6.9	10.6	6.9	--
	34	85	6.8	10.6	6.9	--
	36	85	6.8	10.6	6.7	--
	38	84	6.6	10.4	6.7	--
	40	85	6.5	10.5	6.3	10.8
	42	85	6.5	10.5	6.3	--
	44	86	6.6	10.2	6.3	--
	46	86	6.6	10.6	6.3	--
	48	87	6.6	10.4	6.4	--
	50	88	6.6	10.7	6.3	8.5
	52	90	6.6	10.5	6.0	--
	54	110	6.6	10.8	.7	--
	56	120	6.6	10.9	.6	--
	58	122	--	--	.3	--

07359905 Caddo River regulating pool near Arkadelphia, Ark.

LOCATION.--Lat 34°11'48", long 93°06'24", in NW¼NE¼ sec.35, T.6 S., R.20 W., Clark County, 656 ft (200 m) upstream from regulating dam, 4.2 mi (6.8 km) northwest of Arkadelphia.

DRAINAGE AREA.--480 mi² (1,243 km²), at regulating dam.

PERIOD OF RECORD.--Chemical analyses: August 1972 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
AUG.					
21...	101	7.1	32.3	5.9	1.6
SEP.					
30...	81	7.0	24.4	12.8	9.5
NOV.					
15...	64	7.1	15.0	8.9	3.7
DEC.					
18...	64	6.7	7.8	7.6	1.7
JAN.					
16...	55	6.8	9.1	10.6	4.8
MAR.					
10...	60	6.8	11.0	11.9	2.2
APR.					
16...	55	7.0	11.5	11.6	2.3
MAY					
22...	--	--	24.5	11.9	5.7
JUNE					
20...	61	6.8	27.8	8.2	--
JULY					
31...	74	6.7	28.0	11.2	11.6

07359910 Caddo River at DeGray Regulating Dam, near Arkadelphia, Ark.

LOCATION.--Lat 34°10'37", long 93°06'37", in NW¼NE¼ sec.35, T.6 S., R.20 W., Clark County, at DeGray Regulating Dam, 0.1 mi (0.2 km) downstream from DeGray Creek, 2.2 mi (3.5 km) west of Caddo Valley, 4.2 mi (6.8 km) northwest of Arkadelphia, and at mile 4.8 (7.7 km).

DRAINAGE AREA.--480 mi² (1,243 km²).

PERIOD OF RECORD.--Chemical analyses: August 1972 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	BIOCHEMICAL OXYGEN DEMAND (MG/L)
AUG. 21...	82	7.3	27.3	8.3	3.2
SEP. 30...	79	6.9	22.3	9.7	3.9
NOV. 15...	62	7.1	13.5	9.9	2.0
DEC. 18...	54	6.8	7.2	11.2	2.0
JAN. 16...	51	6.8	7.3	14.8	2.9
MAR. 10...	67	6.8	11.1	16.2	1.9
APR. 16...	55	7.0	12.9	11.5	2.0
MAY 22...	--	--	19.8	12.6	2.5
JUNE 20...	53	6.4	23.5	8.8	.0
JULY 31...	82	6.8	28.0	12.0	8.7

07360250 Little Missouri River near Newhope, Ark.

LOCATION.--Lat 34°14'25", long 93°50'00", in NW¼NW¼ sec.13, T.6 S., R.27 W., Pike County, at bridge on U.S. Highway 70, and 2.8 mi (4.5 km) east of Newhope.

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG. 17...	65	7.4	28.5	7.6
OCT. 05...	56	6.8	21.0	9.2
NOV. 05...	35	6.5	13.0	10.2
DEC. 09...	45	6.7	6.5	13.6
JAN. 20...	35	[illegible]	9.0	14.0
FEB. 24...	38	6.7	8.0	14.0
APR. 05...	48	6.6	12.8	12.1
MAY 16...	40	6.6	12.8	12.1
JUNE 21...	53	7.0	9.2	9.2
JULY 26...	80	7.6	33.0	10.2

07360350 Self Creek near Daisy, Ark.

LOCATION.--Lat 34°15'49", long 93°43'40", in NE¼SE¼ sec.36, T.5 S., R.26 W., Pike County, at bridge on county road 1.6 mi (2.6 km) north of Daisy.

DRAINAGE AREA.--204 mi² (528 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG. 17...	68	7.2	26.0	8.0
OCT. 05...	41	7.3	24.8	9.2
NOV. 05...	33	6.1	12.2	10.4
DEC. 09...	32	6.6	6.5	13.8
JAN. 20...	31	6.9	8.0	13.0
FEB. 24...	31	6.7	8.0	13.4
APR. 05...	40	6.6	14.0	11.8
MAY 16...	40	6.6	14.0	11.8
JUNE 21...	50	6.9	9.2	9.2
JULY 26...	65	6.6	23.5	11.2

07360500 Lake Greeson near Murfreesboro, Ark.

LOCATION.--Lat 34°08'55", long 93°42'55", in NW¼ sec.18, T.7 S., R.25 W., Pike County, at Narrows Dam on Little Missouri River, 6.5 mi (10.5 km) northwest of Murfreesboro, 9.7 mi (15.6 km) upstream from Muddy Fork, and at mile 105.5 (169.7 km).

DRAINAGE AREA.--237 mi² (614 km²).

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1973.
Water temperatures: May 1965 to May 1968, October 1968 to July 1973.

REMARKS.--Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
AUG.						NOV.					
17...	0	38	7.3	28.2	8.8	05...	0	38	6.6	15.9	7.8
	2	39	7.3	28.1	7.8		2	41	6.7	16.8	7.2
	4	40	7.3	28.1	7.8		4	41	6.6	16.8	7.3
	6	40	7.1	28.2	7.8		6	42	6.6	16.9	7.1
	8	39	6.9	25.0	4.7		8	43	6.5	17.0	7.0
	10	35	6.8	18.5	2.8		10	44	6.4	17.0	6.9
	12	31	6.6	15.2	2.9		12	44	6.3	16.8	6.5
	14	31	6.6	13.3	3.0		14	48	6.2	16.5	5.4
	16	31	6.3	12.0	3.1		16	48	6.4	16.0	4.3
	18	32	6.6	11.2	3.2		18	50	6.3	15.2	.3
	20	32	6.6	10.5	3.4		20	51	6.4	13.0	.2
	22	32	6.6	--	3.5		22	48	6.4	--	.1
	24	32	6.6	9.8	3.4		24	45	6.2	11.2	.2
	26	33	6.6	9.3	3.5		26	45	6.2	10.2	.3
	28	33	6.6	8.9	3.3		28	43	6.2	9.7	.9
	30	34	6.6	8.6	3.3		30	43	6.2	9.0	1.1
	32	35	6.6	8.3	3.4		32	45	6.2	8.9	1.1
	34	38	6.5	8.0	2.8		34	46	6.2	8.5	.2
	36	40	6.5	8.0	2.3		36	57	6.4	8.1	.2
	38	40	6.5	7.9	1.3		38	60	6.6	8.1	.1
	40	40	6.7	8.0	.7		40	100	6.8	8.1	.1
	42	--	6.7	8.0	--		42	120	7.0	8.1	.0
	44	--	--	--	--		44	132	--	8.1	.0
	46	--	--	--	--		46	--	--	8.1	--
OCT.						DEC.					
03...	0	40	7.1	23.5	8.3	09...	0	35	6.6	10.0	9.8
	2	40	7.1	23.5	8.5		2	38	6.6	10.0	9.6
	4	40	7.1	23.5	7.5		4	40	6.6	10.0	9.4
	6	40	7.0	23.5	6.9		6	40	6.6	10.0	9.4
	8	41	6.9	23.5	6.6		8	40	6.6	10.0	9.3
	10	41	6.8	23.0	4.9		10	41	6.6	10.0	9.3
	12	43	6.5	16.8	.2		12	42	6.6	9.9	9.2
	14	43	6.6	14.9	.1		14	42	6.6	10.0	9.2
	16	41	6.6	12.5	.1		16	42	6.6	10.0	9.2
	18	41	6.5	11.5	.2		18	42	6.6	10.1	9.2
	20	40	6.6	10.5	.8		20	45	6.6	10.1	9.2
	22	40	6.6	--	1.0		22	45	6.6	--	9.2
	24	39	6.6	10.0	1.4		24	45	6.5	10.1	9.2
	26	39	6.6	9.4	1.6		26	47	6.5	10.1	9.2
	28	39	6.7	9.0	2.0		28	49	6.4	10.1	4.5
	30	40	6.7	8.7	2.0		30	51	6.4	9.8	.6
	32	45	6.7	8.5	.2		32	51	6.3	9.5	.5
	34	79	6.7	8.5	.1		34	52	6.6	9.1	.5
	36	99	6.7	8.4	.1		36	70	7.0	9.0	.4
	38	205	6.7	8.4	.2		38	89	7.0	9.0	.3
	40	--	6.7	8.4	--		40	109	7.0	9.0	.3
	42	--	6.7	--	--		42	110	7.0	9.0	.3
	44	--	--	--	--		44	119	7.0	9.0	.3
	46	--	--	--	--		46	--	--	--	--

07360500 Lake Greeson near Murfreesboro, Ark.--Continued

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	DATE	DEPTH (M)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)
JAN. 21...	0	38	6.7	7.8	12.8	MAY 16...	0	39	6.7	14.5	10.8
	2	38	6.7	7.5	12.6		2	39	6.7	13.0	10.6
	4	40	6.8	7.0	12.4		4	39	6.7	12.8	10.5
	6	41	6.6	6.9	12.4		6	40	6.7	12.3	10.6
	8	39	6.6	6.8	12.4		8	40	6.7	12.2	10.4
	10	39	6.5	6.5	12.2		10	41	6.7	12.2	10.4
	12	39	6.5	6.5	12.2		12	41	6.7	12.2	10.3
	14	40	6.5	6.5	12.2		14	42	6.7	12.2	10.1
	16	40	6.6	6.3	12.4		16	43	6.7	12.0	10.0
	18	41	6.6	6.1	12.4		18	43	6.7	10.2	9.8
	20	42	6.6	6.1	12.3		20	43	6.7	9.1	9.8
	22	43	6.5	--	12.0		22	45	6.7	--	9.8
	24	43	6.5	6.0	12.3		24	45	6.6	8.2	9.8
	26	43	6.5	6.0	12.2		26	45	6.6	8.0	9.8
	28	43	6.5	6.0	11.8		28	45	6.6	7.7	9.8
	30	44	6.5	6.0	11.8		30	45	6.6	7.5	9.8
	32	44	6.5	5.8	12.0		32	45	6.7	7.5	9.8
	34	45	6.5	5.9	11.8		34	45	6.7	7.5	9.6
	36	45	6.5	5.9	11.9		36	46	6.7	7.5	9.6
	38	45	--	5.8	11.8		38	48	6.7	7.5	9.5
	40	45	--	5.8	11.7		40	48	6.6	7.5	9.5
	42	45	--	5.8	11.7		42	48	6.6	7.5	9.5
	44	--	--	5.8	--		44	48	6.6	7.5	9.4
	46	--	--	--	--		46	52	6.6	7.5	8.6
FEB. 24...	0	32	6.8	9.0	14.0	JUNE 21...	0	40	6.7	27.5	8.2
	2	32	6.8	7.9	13.8		2	40	6.7	27.0	8.1
	4	32	6.8	7.2	13.4		4	40	6.7	26.5	7.9
	6	32	6.8	6.9	13.0		6	40	6.7	23.0	5.9
	8	33	6.8	6.9	13.1		8	40	6.7	21.0	4.4
	10	35	6.8	6.3	13.1		10	40	6.7	19.0	4.0
	12	35	6.8	6.2	12.3		12	40	6.7	18.0	4.2
	14	38	6.8	6.2	12.8		14	40	6.7	17.0	4.2
	16	38	6.8	6.2	12.8		16	40	6.7	16.0	4.3
	18	39	6.8	6.2	12.6		18	40	6.7	14.5	4.3
	20	39	6.8	6.2	12.5		20	40	6.7	13.3	4.9
	22	40	6.8	--	12.5		22	41	6.7	--	5.0
	24	40	6.8	6.2	12.5		24	42	6.7	12.0	4.6
	26	40	6.7	6.2	12.5		26	42	6.6	11.0	5.1
	28	40	6.7	6.2	12.5		28	42	6.6	9.0	6.1
	30	40	6.7	6.2	12.2		30	42	6.6	8.5	6.7
	32	40	6.7	6.1	12.1		32	42	6.6	8.0	6.8
	34	41	6.7	6.0	11.1		34	43	6.6	8.0	6.8
	36	41	6.7	6.0	10.5		36	44	6.6	7.5	6.0
	38	41	6.7	6.0	9.6		38	45	6.6	7.5	5.5
	40	43	6.7	6.0	10.2		40	48	6.5	7.0	4.5
	42	49	6.7	6.0	9.7		42	50	6.5	7.0	3.5
	44	50	6.6	6.0	9.0		44	68	6.5	7.0	3.0
	46	--	--	6.0	8.9		46	--	6.6	7.0	--
APR. 05...	0	39	6.7	14.5	10.0	JULY 26...	0	45	7.0	32	10.4
	2	39	6.7	13.0	10.6		2	45	7.6	31	9.8
	4	39	6.7	12.8	10.5		4	48	7.6	31	10.0
	6	40	6.7	12.3	10.6		6	48	6.7	28	7.0
	8	40	6.7	12.2	10.4		8	47	6.7	24	1.2
	10	41	6.7	12.2	10.4		10	47	7.2	20	2.0
	12	41	6.7	12.2	10.4		12	48	7.2	19	2.6
	14	42	6.7	12.2	10.3		14	49	6.7	18	2.8
	16	43	6.7	12.0	10.2		16	49	6.7	17	2.8
	18	43	6.7	10.2	10.3		18	49	6.6	--	2.9
	20	43	6.7	9.1	10.0		20	49	6.6	14	3.5
	22	45	6.7	--	9.8		22	48	6.7	--	3.8
	24	45	6.6	8.2	9.8		24	49	6.7	12	4.2
	26	45	6.6	8.0	9.8		26	48	6.8	10	5.7
	28	45	6.6	7.7	9.8		28	48	6.8	9	6.4
	30	45	6.6	7.5	9.8		30	48	6.6	8	6.2
	32	45	6.7	7.5	9.8		32	49	6.8	8	6.2
	34	46	6.7	7.5	9.8		34	49	6.8	7	6.0
	36	48	6.7	7.5	9.6		36	49	6.6	7	5.0
	38	48	6.7	7.5	9.5		38	49	6.5	7	.8
	40	48	6.6	7.5	9.5		40	50	6.5	7	.5
	42	48	6.6	7.5	9.5		42	50	--	7	--
	44	52	6.6	7.5	9.4		44	--	--	7	--
	46	--	6.6	7.5	8.6		46	--	--	--	--

07360501 Little Missouri River at Narrows Dam, near Murfreesboro, Ark.

LOCATION.--Lat 34°08'51", long 93°43'04", in NW¼ sec.18, T.7 S., R.25 W., Pike County, at gaging station in powerhouse at Narrows Dam, 6.5 mi (10.5 km) northwest of Murfreesboro, 9.5 mi (15.3 km) upstream from Muddy Fork Creek, and at mile 105.5 (169.7 km).

DRAINAGE AREA.--237 mi^2 (614 km^2).

PERIOD OF RECORD.--Chemical analyses: August 1969 to July 1973.

REMARKS.--Flow completely regulated by Lake Greeson since Nov. 30, 1949. Records furnished by Corps of Engineers, Vicksburg, Miss.

CHEMICAL ANALYSES, AUGUST 1972 TO JULY 1973

DATE	SPECIFIC CONDUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
AUG.				
17...	33	6.7	13.0	1.8
OCT.				
05...	38	6.5	18.0	5.1
NOV.				
05...	47	6.3	15.0	3.0
DEC.				
09...	37	6.6	9.0	9.8
JAN.				
20...	32	6.7	7.5	13.6
FEB.				
24...	38	6.9	8.9	11.2
APR.				
05...	36	6.6	11.8	10.2
MAY				
16...	36	6.6	11.8	10.2
JUNE				
21...	43	6.6	3.7	3.7
JULY				
26...	40	6.6	19.5	10.8

07362001 Ouachita River below Camden, Ark.

LOCATION.--Lat 33°29'03", long 92°45'11", in NE¼SE¼ sec.20, T.14 S., R.16 W., Ouachita County, at Frenchport Landing, 7.5 mi (12.1 km) southeast of Camden, 6.5 mi (10.5 km) downstream from Two Bayou Creek (west), and at mile 339.2 (545.8 km).

DRAINAGE AREA.--5,676 mi² (14,701 km²).

PERIOD OF RECORD.--Chemical analyses: July 1969 to June 1973 (discontinued).

CHEMICAL ANALYSES, OCTOBER 1972 TO JUNE 1973

DATE	MEAN DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS. SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS. SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)
OCT.												
13...	2460	24	0	20	19	27	1.2	5.2	.10	--	.19	.08
NOV.												
17...	19800	22	0	18	7.2	7.5	.20	.90	--	--	--	.18
DEC.												
19...	36000	20	0	16	7.6	5.9	.14	.60	.02	.03	.22	.05
JAN.												
10...	8030	22	0	10	9.5	9.6	.14	.60	.04	.05	.40	.05
FEB.												
23...	7700	20	0	16	13	6.6	.16	.70	.23	.30	.30	.06
APR.												
05...	20100	18	0	15	7.6	4.2	.25	1.1	.13	.17	.27	.09
MAY												
11...	17100	20	0	16	11	3.7	.36	1.6	.01	.01	.21	.08
JUNE												
07...	17800	18	0	15	12	14	.59	2.6	.00	.00	.22	.12
29...	4480	20	0	23	11	7.2	.43	1.9	.01	.01	.02	.11

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	NON-CAR-BONATE HARD-NESS (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	PHENOLS (UG/L)
OCT.												
13...	7	50	31	201	7.0	15	2.0	3.0	540	K20	42	210
NOV.												
17...	10	25	7	60	6.8	12	2.0	5.6	780	230	130	--
DEC.												
19...	14	22	5	65	7.1	12	1.9	2.5	690	130	200	--
JAN.												
10...	6	23	5	66	6.9	6	1.0	6.4	950	K130	K14	13
FEB.												
23...	5	22	5	90	7.0	1	1.5	3.2	3100	K44	10	--
APR.												
05...	13	25	5	83	6.5	9	1.5	9.1	--	--	--	18
MAY												
11...	12	19	2	67	6.9	12	--	6.0	1700	K13	K12	--
JUNE												
07...	115	35	20	110	6.0	12	1.0	6.6	1900	230	360	--
29...	23	26	6	90	7.1	2	.2	3.6	10000	K53	K24	--

FIELD ANALYSES

DATE	MEAN DIS-CHARGE (CFS)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.										
13...	2460	26	0	21	199	7.1	23.0	6.3	72	3.4
NOV.										
17...	19800	22	0	18	75	7.3	11.0	7.6	69	3.5
DEC.										
19...	36000	--	--	--	--	--	5.0	10.7	84	--
JAN.										
10...	8030	20	0	16	92	7.2	8.9	10.4	87	2.0
FEB.										
23...	7700	17	0	14	90	--	8.0	11.4	87	--
APR.										
05...	20100	20	0	16	70	6.9	14.5	8.3	80	6.0
MAY										
11...	17100	18	0	15	66	6.9	20.0	7.1	77	3.6
JUNE										
07...	17800	18	0	15	116	6.8	22.0	--	--	6.0
29...	4480	20	0	23	99	8.1	28.0	6.6	84	.6

07362400 Ouachita River at Lock and Dam 8, near Calion, Ark.

LOCATION.--Lat 33°19'14", long 92°27'19", in sec.29, T.16 S., R.13 W., Union County, at south end on upstream side, at Lock and Dam 8, 7 mi (11.3 km) southeast of Calion.

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
24...	2100	160	90	16	3.0	26	6.0	33	2.5	.03	127	13
NOV.												
21...	27600	--	--	--	--	16	--	28	--	--	--	--
JAN.												
23...	17100	1160	650	18	4.0	2	5.0	86	.30	.07	216	27
FEB.												
20...	15100	--	--	--	--	13	--	31	--	--	--	--
MAR.												
20...	69500	--	--	--	--	7	--	106	--	--	--	--
APR.												
24...	--	1310	210	11	2.0	9	4.0	76	.37	.08	226	30
MAY												
22...	9600	--	--	--	--	10	--	31	--	--	--	--
JUNE												
19...	--	--	--	--	--	17	--	61	--	--	--	--
JULY												
24...	6300	--	--	--	--	15	--	67	--	--	--	--
AUG.												
14...	--	--	--	--	--	21	--	20	--	--	--	--
SEP.												
25...	--	1020	402	15	4.0	13	7.0	111	.70	.05	277	30

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.											
24...	168	47	30	220	6.9	22.0	40	20	6.6	51	1.6
NOV.											
21...	--	--	--	166	6.5	16.0	--	<25	8.7	60	2.6
JAN.											
23...	243	61	26	302	6.0	10.0	30	25	1.6	63	1.8
FEB.											
20...	--	--	--	147	6.5	9.0	--	25	9.6	83	2.0
MAR.											
20...	--	--	--	303	6.0	16.0	--	<25	5.6	52	1.5
APR.											
24...	250	36	20	316	6.3	20.0	80	25	4.0	43	1.6
MAY											
22...	--	--	--	167	6.7	25.0	--	15	1.3	16	2.1
JUNE											
19...	--	--	--	181	6.9	22.0	--	15	6.0	70	1.3
JULY											
24...	--	--	--	232	6.0	34.0	--	10	6.5	80	2.0
AUG.											
14...	--	--	--	140	7.1	27.0	--	8	6.0	76	.5
SEP.											
25...	307	56	30	616	6.6	23.0	15	9	5.0	67	.3

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	9400	32	23	2	<50	--	15	150	<.1	<50	16
NOV.											
21...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
23...	--	--	5	6	<100	<5	40	206	<2.0	<50	63
FEB.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	--	--	15	<5	<10	--	13	150	<.6	13	25
MAY											
22...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
24...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
25...	--	--	<3	0	<6	--	<20	20	--	<6	--

07364012 Saline River near Fountain Hill, Ark.

LOCATION.--Lat 33°22'42", long 91°57'32", in sec.30, T.15 S., R.8 W., Ashley County, at bridge on State Highway 160, 8 mi (12.9 km) west of Fountain Hill.

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
24...	75	650	490	6.0	4.0	26	11	6.0	<.10	.04	52	16
NOV.												
21...	10400	--	--	--	--	14	--	6.0	--	--	--	--
DEC.												
18...	19400	--	--	--	--	8	--	6.0	--	--	--	--
JAN.												
23...	4220	490	140	3.0	2.0	3	7.6	4.0	1.1	.08	74	27
FEB.												
20...	10500	--	--	--	--	12	--	5.0	--	--	--	--
MAR.												
20...	21200	--	--	--	--	11	--	6.5	--	--	--	--
APR.												
24...	--	630	65	3.0	3.0	10	7.0	2.5	.20	.07	67	15
MAY												
22...	1290	--	--	--	--	23	--	7.0	--	--	--	--
JUNE												
19...	1190	--	--	--	--	20	--	7.0	--	--	--	--
JULY												
24...	577	--	--	--	--	18	--	5.5	--	--	--	--
AUG.												
14...	1170	--	--	--	--	22	--	7.0	--	--	--	--
SEP.												
25...	573	1100	461	10	2.0	26	13	6.5	.32	.09	86	15

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
24...	68	31	16	93	6.9	20.0	20	30	5.3	59	1.0	4600
NOV.												
21...	--	--	--	69	6.0	8.0	--	<25	8.3	70	1.6	--
DEC.												
18...	--	--	--	66	6.5	.0	--	<25	10.7	76	1.3	--
JAN.												
23...	101	16	8.0	69	5.0	9.0	80	25	8.3	72	1.7	--
FEB.												
20...	--	--	--	63	6.7	7.0	--	<25	10.1	83	.6	--
MAR.												
20...	--	--	--	62	6.6	14.0	--	<25	8.4	82	1.0	--
APR.												
24...	82	25	8.0	65	6.6	20.0	80	<25	5.2	59	.2	--
MAY												
22...	--	--	--	65	6.0	23.0	--	15	5.4	63	.4	--
JUNE												
19...	--	--	--	107	7.2	20.0	--	16	6.1	77	.9	--
JULY												
24...	--	--	--	99	7.0	--	--	13	7.2	--	2.1	1150
AUG.												
14...	--	--	--	90	7.1	25.0	--	16	5.0	60	.3	575
SEP.												
25...	101	33	26	89	6.7	20.0	55	9	5.1	56	.8	470

07364012 Saline River near Fountain Hill, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 24...	--	44	4	4	<50	--	12	200	<.1	<50	29
NOV. 21...	--	--	--	--	--	--	--	--	--	--	--
DEC. 18...	--	--	--	--	--	--	--	--	--	--	--
JAN. 23...	--	--	3	111	<100	<5	30	47	<.4	50	22
FEB. 20...	--	--	--	--	--	--	--	--	--	--	--
MAR. 20...	--	--	--	--	--	--	--	--	--	--	--
APR. 24...	--	--	17	<5	<10	--	8	270	<.4	8	20
MAY 22...	--	--	--	--	--	--	--	--	--	--	--
JUNE 19...	--	--	--	--	--	--	--	--	--	--	--
JULY 24...	83	--	--	--	--	--	--	--	--	--	--
AUG. 14...	25	--	--	--	--	--	--	--	--	--	--
SEP. 25...	13	70	<3	5	<4	--	70	33	--	<4	8

07364080 Ouachita River near Felsenthal, Ark.

LOCATION.--Lat 33°01'55", long 92°05'15", in NE¼ sec.25, T.19 S., R.10 W., Union County, at Corps of Engineers Lock No. 6, 3 mi (4.8 km) south of Felsenthal.

DRAINAGE AREA.--10,787 mi² (27,938 km²).

PERIOD OF RECORD.--Chemical analyses: October 1949 to September 1973.
Water temperatures: October 1949 to September 1973.

EXTREMES.--Current year:
Specific conductance: Maximum daily, 743 micromhos Oct. 29; minimum daily, 54 micromhos May 12.
Water temperature: Maximum, 29.5°C Aug. 26; minimum, 5.0°C Jan. 14-16.

Period of record:
Specific conductance: Maximum daily, 7,610 micromhos Oct. 7, 1954; minimum daily, 44 micromhos May 19, 1958.
Water temperatures: Maximum, 37.0°C July 11, 1969; minimum, freezing point Feb. 8, 12, 13, 1958, Dec. 22, 1963, Jan. 12, 1970.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-SOLVED SILICA (SIO2) (MG/L)	DIS-SOLVED IRON (FE) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)
OCT.											
12...	4.5	150	90	15	2.7	30	2.6	24	0	20	12

DATE	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS_ SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITRO-GEN (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	DIS-SOLVED SOLIDS (RESI-DUE AT 180 C) (MG/L)	DIS-SOLVED SOLIDS (TONS PER AC-FT)	HARD-NESS (CA,MG) (MG/L)
OCT.											
12...	58	.2	1.0	4.4	.14	.18	.22	.00	161	.22	48

DATE	NON-CAR-BONATE HARD-NESS (MG/L)	PERCENT SODIUM	SODIUM AD-SORP-TION RATIO	PH (UNITS)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (MG/L)	CHEM-ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT.										
12...	29	56	1.9	7.1	15	15	13	2.2	3.1	5.0

DATE	DIS-SOLVED ARSENIC (AS) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	DIS-SOLVED COPPER (CU) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	DIS-SOLVED MERCURY (HG) (UG/L)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
OCT.									
12...	<10	0	<10	0	5	0	<.5	0	7

FIELD ANALYSES

DATE	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT.									
12...	4	0	3	287	6.8	24.0	7.3	86	1.0

07364080 Ouachita River near Felsenthal, Ark.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT VARYING HOURS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	442	124	134	105	110	75	---	100	150	142	455
2	243	388	123	147	96	95	79	101	98	147	182	522
3	295	392	106	133	98	96	78	---	101	155	182	530
4	317	183	106	107	96	102	76	74	103	190	143	186
5	314	188	108	114	95	136	96	73	102	188	143	183
6	387	87	136	114	88	143	96	60	104	176	137	189
7	398	83	136	106	109	135	99	60	---	173	135	189
8	---	83	137	122	90	121	94	61	100	174	122	183
9	277	101	152	118	110	132	98	65	101	165	110	174
10	269	135	193	111	107	146	98	56	117	218	178	175
11	277	196	197	125	94	129	91	57	122	294	175	168
12	264	229	194	115	96	129	93	54	146	201	174	140
13	278	127	195	112	120	104	94	62	164	200	164	132
14	253	120	196	110	91	104	88	64	173	173	164	132
15	232	107	82	124	91	104	92	64	---	173	223	175
16	279	---	81	125	88	105	85	69	175	183	223	175
17	293	145	138	119	95	102	83	63	174	184	174	176
18	259	96	83	127	93	91	87	62	143	170	171	178
19	257	100	83	117	93	86	88	67	150	139	171	162
20	255	99	86	117	91	83	91	62	130	137	208	164
21	262	99	82	118	94	82	95	61	130	143	236	186
22	260	125	80	120	---	86	100	73	137	144	167	186
23	253	138	83	132	90	86	101	97	176	136	224	166
24	247	105	81	139	86	81	104	95	175	136	164	265
25	223	95	82	144	100	96	107	107	171	175	237	166
26	255	133	80	138	86	98	117	105	161	177	149	265
27	225	133	76	107	90	92	124	102	150	152	150	266
28	295	133	79	122	92	89	122	100	149	152	208	233
29	743	103	76	88	---	79	98	99	152	144	158	267
30	354	122	139	85	---	74	91	108	147	143	224	278
31	409	---	82	88	---	73	---	108	---	142	195	---
MONTH	299	152	116	119	96	103	95	77	138	169	175	222

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973
(ONCE-DAILY MEASUREMENT AT VARYING HOURS)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16.5	10.0	---	10.0	12.0	21.5	---	24.0	---	28.5	28.0
2	---	16.5	11.0	---	10.0	12.0	18.0	21.5	24.0	---	27.0	29.0
3	26.5	20.0	10.0	---	10.0	11.5	14.0	---	25.0	---	28.0	28.0
4	26.5	15.5	9.0	9.5	10.0	12.0	14.0	21.0	25.5	---	28.5	27.5
5	26.5	15.0	---	9.0	10.0	13.0	15.5	20.0	23.0	---	28.0	26.0
6	---	---	---	9.0	9.0	13.0	16.0	20.5	24.0	---	27.0	25.5
7	---	20.5	---	8.0	9.0	13.5	18.0	21.0	24.0	---	27.5	26.0
8	---	15.5	---	7.5	10.0	14.0	18.5	22.5	24.5	---	27.0	27.0
9	21.0	15.5	---	7.0	10.0	14.0	19.5	24.0	25.0	---	28.0	28.0
10	---	15.5	10.0	6.5	10.0	14.5	18.0	21.0	25.0	---	28.5	28.5
11	---	14.5	---	6.0	10.0	15.0	17.5	22.0	26.0	---	29.0	27.0
12	---	14.5	---	6.0	10.0	15.5	16.0	22.0	25.0	---	28.0	25.0
13	20.0	14.5	---	5.5	10.0	16.0	15.0	23.0	25.5	---	27.5	26.0
14	---	14.5	---	5.0	11.0	16.5	15.5	22.0	24.5	---	27.0	26.5
15	20.0	12.0	---	5.0	10.0	17.0	16.0	22.0	25.0	---	26.5	27.0
16	21.0	---	---	5.0	10.0	17.0	16.5	20.0	27.5	---	27.0	26.0
17	20.5	---	---	6.0	10.0	17.5	18.0	20.5	26.0	---	28.0	26.5
18	25.5	14.5	---	8.0	9.0	17.0	18.5	23.0	25.5	---	28.5	25.0
19	26.5	14.5	---	8.0	10.0	16.0	18.5	25.0	25.0	---	29.0	23.0
20	20.0	9.0	---	8.0	10.0	15.0	22.0	27.0	26.0	---	27.0	23.5
21	20.0	14.5	---	9.0	10.0	14.0	20.5	28.0	25.5	---	27.5	23.0
22	20.0	---	---	9.0	---	15.0	21.5	24.0	25.0	---	28.0	23.0
23	20.0	14.5	---	9.0	10.0	17.0	22.0	22.0	25.0	---	28.5	24.0
24	14.5	---	---	9.0	11.0	17.5	20.0	22.5	25.0	---	29.0	24.5
25	15.5	9.0	---	9.0	11.0	16.0	21.0	20.0	25.0	---	29.0	25.0
26	15.5	9.0	---	9.5	12.0	13.0	18.0	21.0	25.5	---	29.5	24.0
27	---	9.0	---	10.0	11.0	15.0	19.0	22.0	26.0	---	28.5	25.0
28	15.5	---	---	10.5	12.0	16.0	20.0	22.5	28.0	---	28.0	25.5
29	---	---	---	10.0	---	16.5	21.0	23.5	26.5	---	27.5	26.0
30	15.5	---	---	9.5	---	18.0	22.0	23.0	26.0	---	28.0	27.0
31	16.0	---	---	9.5	---	20.0	---	24.0	---	---	29.0	---
MONTH	---	---	---	8.0	10.0	15.0	18.5	22.5	25.5	---	28.0	26.0

07364088 (revised) Coffee Creek near Crossett, Ark.

LOCATION.--Lat 33°06'29", long 92°01'54", in sec.33, T.18 S., R.9 W., Ashley County, below mill pond, at bridge on county road, 2.5 mi (4.0 km) southwest of Crossett.

PERIOD OF RECORD.--Chemical analyses: January 1972 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT.												
24...	410	780	--	--	180	123	335	.10	.16	1137	56	1193
NOV.												
21...	--	--	--	--	102	--	142	--	--	--	--	--
DEC.												
18...	--	--	--	--	118	--	153	--	--	--	--	--
JAN.												
23...	550	400	38	5.0	117	98	215	1.4	.23	812	68	880
FEB.												
20...	--	--	--	--	130	--	315	--	--	--	--	--
MAR.												
20...	--	--	--	--	65	--	81	--	--	--	--	--
APR.												
24...	980	680	46	6.0	142	40	250	.90	.33	854	42	896
MAY												
22...	--	--	--	--	173	--	370	--	--	--	--	--
JUNE												
19...	--	--	--	--	201	--	355	--	--	--	--	--
JULY												
24...	--	--	--	--	297	--	350	--	--	--	--	--
AUG.												
14...	--	--	--	--	309	--	425	--	--	--	--	--
SEP.												
25...	769	524	71	--	233	--	295	2.2	.01	1031	36	1067

DATE	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.											
24...	220	--	1673	7.4	28.0	800	40	.2	3	42	42000
NOV.											
21...	--	--	770	7.1	10.0	--	<95	3.8	34	3.8	--
DEC.											
18...	--	--	807	7.3	7.0	--	95	2.1	17	57	--
JAN.											
23...	120	96	1043	7.1	13.0	800	130	.0	0	7.6	--
FEB.											
20...	--	--	1413	7.1	13.0	--	120	.0	0	95	--
MAR.											
20...	--	--	462	6.9	12.0	--	75	.2	2	41	--
APR.											
24...	140	116	1205	7.3	23.0	800	110	.0	0	76	--
MAY											
22...	--	--	1519	7.5	26.0	--	35	.0	0	29	2800000
JUNE											
19...	--	--	1590	7.7	28.0	--	8	.0	0	27	330000
JULY											
24...	--	--	1502	7.9	35.0	--	90	.0	0	26	4800
AUG.											
14...	--	--	1756	7.8	25.0	--	50	.0	0	29	3075
SEP.											
25...	200	178	1527	7.8	24.0	550	4	.5	6	7.1	--

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	1500	7	12	<50	--	51	400	<.1	<50	38
NOV.											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
23...	--	--	9	12	<100	<5	140	56	<2.2	<50	49
FEB.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	--	--	E37	11	<10	--	18	41	--	13	35
MAY											
22...	3000000	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	4000	--	--	--	--	--	--	--	--	--	--
JULY											
24...	230	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	1000	--	--	--	--	--	--	--	--	--	--
SEP.											
25...	--	--	--	--	--	--	66	201	--	<4	15

07364200 Bayou Bartholomew near Jones, La.

LOCATION.--Lat 32°59'25", long 91°39'20", in SE¼SW¼ sec.9, T.23 N., R.8 E., Morehouse Parish, on downstream side of right pier of bridge on Louisiana State Highway 834, 1.0 mi (1.6 km) downstream from Arkansas-Louisiana State line, and 1.6 mi (2.6 km) northwest of Jones.

DRAINAGE AREA.--1,187 mi² (3,074 km²).

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958, October 1967 to September 1973. Water temperatures: October 1958 to September 1968.

REMARKS.--Additional analyses furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL IRON (FE) (UG/L)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	CAR-BONATE (CO3) (MG/L)
OCT.												
24...	92	--	--	--	--	--	--	--	--	--	--	--
NOV.												
21...	1930	--	--	--	--	--	--	--	--	--	--	--
28...	--	121	7.5	--	--	--	3.9	3.9	1.8	4.0	20	--
DEC.												
18...	3720	--	--	815	--	<20	5.0	--	--	--	--	--
JAN.												
23...	4130	--	--	--	--	--	--	--	--	--	--	--
FEB.												
14...	--	4720	1.9	--	--	--	4.0	1.2	2.0	3.7	16	0
20...	4690	--	--	--	--	--	--	--	--	--	--	--
MAR.												
20...	--	--	--	880	--	200	3.0	--	--	--	--	--
APR.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	6140	4.1	--	--	--	4.2	1.6	1.5	3.0	20	0
22...	5690	--	--	--	--	--	--	--	--	--	--	--
JUNE												
19...	750	--	--	3030	--	540	9.0	--	--	--	--	--
JULY												
24...	429	--	--	--	--	--	--	--	--	--	--	--
AUG.												
08...	--	371	15	--	80	--	19	5.5	14	3.0	89	0
14...	348	--	--	--	--	--	--	--	--	--	--	--
SEP.												
25...	347	--	--	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	DIS-SOLVED FLUO-RIDE (F) (MG/L)	TOTAL NITRATE (N) (MG/L)	DIS-SOLVED NITRATE (N) (MG/L)	DIS_SOLVED NITRATE (NO3) (MG/L)	DIS-SOLVED NITRITE (N) (MG/L)	DIS_SOLVED NITRITE (NO2) (MG/L)	DIS-SOLVED AMMONIA NITRO-GEN (N) (MG/L)	DIS_SOLVED AMMONIA (NH4) (MG/L)
OCT.											
24...	112	--	90	--	--	--	--	--	--	--	--
NOV.											
21...	--	--	10	--	--	--	--	--	--	--	--
28...	16	10	2.0	.0	--	.20	.70	--	--	--	--
DEC.											
18...	26	5.2	3.5	--	.49	--	--	--	--	--	--
JAN.											
23...	14	--	4.5	--	--	--	--	--	--	--	--
FEB.											
14...	13	5.4	2.1	.0	--	.40	1.8	.00	.0	.00	.00
20...	13	--	5.0	--	--	--	--	--	--	--	--
MAR.											
20...	13	1.0	5.0	--	.63	--	--	--	--	--	--
APR.											
24...	15	--	3.0	--	--	--	--	--	--	--	--
MAY											
08...	16	3.2	1.0	.1	--	.20	.90	--	--	--	--
22...	24	--	4.0	--	--	--	--	--	--	--	--
JUNE											
19...	37	7.0	8.3	--	.05	--	--	--	--	--	--
JULY											
24...	40	--	9.0	--	--	--	--	--	--	--	--
AUG.											
08...	73	10	16	.1	--	.30	1.2	.00	.0	.00	.00
14...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
25...	--	--	--	--	--	--	--	--	--	--	--

07364200 Bayou Bartholomew near Jones, La.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ORGANIC NITROGEN (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	DISSOLVED SOLIDS (RESIDUE AT 180 C) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	DISSOLVED SOLIDS (TONS PER AC-FT)	DISSOLVED SOLIDS (TONS PER DAY)	TOTAL NONFILTRABLE RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	NONCARBONATE HARDNESS (MG/L)	PERCENT SODIUM	SODIUM ADSORPTION RATIO
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	61	--	.08	19.9	--	17	4	11	.2
DEC.											
18...	--	.21	--	93	--	--	15	28	--	--	--
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
14...	.54	.13	74	--	.10	443	--	15	2	10	.2
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	--	.10	--	92	--	--	20	16	--	--	--
APR.											
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
08...	--	--	48	--	.07	796	--	17	0	13	.2
22...	--	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	--	.45	--	111	--	--	93	56	--	--	--
JULY											
24...	--	--	--	--	--	--	--	--	--	--	--
AUG.											
08...	.28	.18	156	--	.21	156	--	78	0	29	.7
14...	--	--	--	--	--	--	--	--	--	--	--
SEP.											
25...	--	--	--	--	--	--	--	--	--	--	--

DATE	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (MG/L)	TURBIDITY (JTU)	BIOCHEMICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
OCT.											
24...	372	7.7	18.0	--	--	45	1.6	--	--	--	--
NOV.											
21...	79	--	9.0	--	--	--	--	--	--	--	--
28...	61	6.0	8.0	60	37	--	--	5.1	--	130	240
DEC.											
18...	51	6.6	4.0	120	--	30	.9	--	1230	6	286
JAN.											
23...	54	6.8	7.0	--	--	40	.7	--	--	--	--
FEB.											
14...	51	6.1	9.0	50	60	--	3.0	20	--	75	130
20...	49	6.7	8.0	--	--	30	.8	--	--	--	--
MAR.											
20...	40	6.5	16.0	120	--	35	.9	--	700	27	153
APR.											
24...	47	6.5	20.0	--	--	55	.8	--	1500	100	--
MAY											
08...	47	6.0	21.5	50	63	--	1.2	32	--	70000	3100
22...	56	6.9	23.0	--	--	45	1.2	--	1300	215	--
JUNE											
19...	100	7.0	27.0	70	--	100	1.2	--	360	50	100
JULY											
24...	109	7.1	--	--	--	66	--	--	900	90	--
AUG.											
08...	205	7.7	26.5	25	29	--	2.1	2.0	--	130	880
14...	--	--	--	--	--	--	--	--	230	--	440
SEP.											
25...	--	--	--	--	--	--	--	--	1000	80	--

07364200 Bayou Bartholomew near Jones, La.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	ALDRIN (UG/L)	CHLOR-DANE (UG/L)	DDD (UG/L)	DDE (UG/L)	DDT (UG/L)	DI-AZINON (UG/L)	DI-ELDRIN (UG/L)	ENDRIN (UG/L)	HEPTA-CHLOR (UG/L)
AUG. 08...	.00	.0	.03	.01	.02	.01	.00	.00	.00

DATE	HEPTA-CHLOR EPOXIDE (UG/L)	LINDANE (UG/L)	MALA-THION (UG/L)	METHYL PARA-THION (UG/L)	PARA-THION (UG/L)	PCB (UG/L)	2,4-D (UG/L)	2,4,5-T (UG/L)	SILVEX (UG/L)
AUG. 08...	.00	.00	.00	.03	.00	.0	.00	.10	.00

DATE	TOTAL ARSENIC (AS) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)
DEC. 18...	11	--	6	--	120	<5	20
FEB. 14...	--	0	--	0	--	10	--
MAR. 20...	3	--	7	--	<10	--	20
JUNE 19...	<3	--	7	--	<10	--	<7
AUG. 08...	--	0	--	0	--	<10	--

DATE	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)	DIS-SOLVED ZINC (ZN) (UG/L)
DEC. 18...	--	150	--	<.6	25	--
FEB. 14...	--	--	0	<.5	--	0
MAR. 20...	--	330	--	<.3	74	--
JUNE 19...	--	60	--	<.6	17	--
AUG. 08...	0	--	0	<.5	--	0

07364200 Bayou Bartholomew near Jones, La.--Continued

ADDITIONAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	DIS-CHARGE (CFS)	INSTAN-TANEOUS DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)
OCT.												
24...	92	--	--	--	--	--	112	--	90	--	--	--
NOV.												
21...	1930	--	--	--	--	--	--	--	10	--	--	--
28...	--	171	--	--	3.9	1.9	16	10	2.0	--	--	--
DEC.												
18...	3720	--	815	<20	5.0	2.0	20	5.2	3.5	.69	.21	93
JAN.												
23...	4130	--	--	--	--	--	16	--	4.5	--	--	--
FEB.												
14...	--	4720	--	--	4.0	1.2	13	5.4	2.1	--	.13	--
28...	4690	--	--	--	--	--	13	--	5.0	--	--	--
MAR.												
20...	--	--	800	200	3.0	2.0	13	1.0	5.0	.63	.10	92
APR.												
24...	--	--	--	--	--	--	15	--	3.0	--	--	--
MAY												
08...	--	6140	--	--	4.2	1.6	16	3.2	1.0	--	--	--
22...	5690	--	--	--	--	--	26	--	6.0	--	--	--
JUNE												
19...	750	--	3030	560	9.0	8.0	37	7.0	8.3	.85	.05	111
JULY												
24...	429	--	--	--	--	--	60	--	9.0	--	--	--
AUG.												
08...	--	371	--	--	19	5.5	73	10	16	--	.10	--
14...	340	--	2520	200	14	8.0	60	8.0	12	.92	.29	179
SEP.												
25...	347	--	--	--	--	--	96	--	20	--	--	--

DATE	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)
OCT.												
24...	--	--	--	--	372	7.7	10.0	--	65	6.0	72	1.6
NOV.												
21...	--	--	--	--	79	--	9.0	--	--	7.5	--	--
28...	--	--	17	--	61	6.0	8.0	60	--	9.0	--	--
DEC.												
18...	15	100	21	12	51	6.6	4.0	120	30	9.1	70	.9
JAN.												
23...	--	--	--	--	56	6.8	7.0	--	60	8.9	73	.7
FEB.												
14...	--	--	15	--	51	6.1	9.0	50	--	8.7	--	3.8
28...	--	--	--	--	49	6.7	8.0	--	30	9.0	76	.8
MAR.												
20...	29	112	16	8.0	40	6.6	16.0	120	35	5.6	56	.9
APR.												
24...	--	--	--	--	47	6.6	20.0	--	55	4.7	51	.8
MAY												
08...	--	--	17	--	47	6.0	21.5	50	--	5.5	--	1.2
22...	--	--	--	--	56	7.0	23.0	--	65	4.6	53	1.2
JUNE												
19...	93	206	55	22	100	7.0	27.0	70	100	3.3	41	1.2
JULY												
24...	--	--	--	--	109	7.2	--	--	66	3.8	--	--
AUG.												
08...	--	--	70	--	205	7.7	20.5	25	--	6.2	--	2.1
14...	9	180	67	36	154	7.5	24.0	30	50	4.9	58	.6
SEP.												
25...	--	--	--	--	263	7.6	24.0	--	21	6.4	76	1.1

07364200 Bayou Bartholomew near Jones, La.--Continued

ADDITIONAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
NOV.												
21...	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	130	240	--	--	--	--	--	--	--	--	--
DEC.												
18...	1230	6	200	11	6	120	<5	20	190	<.6	<50	25
JAN.												
23...	--	--	--	--	--	--	--	--	--	--	--	--
FEB.												
14...	--	75	130	--	--	--	10	--	--	<.5	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--
MAR.												
29...	700	27	153	3	7	<10	--	20	330	<.3	9	70
APR.												
24...	1500	100	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	70000	3100	--	--	--	--	--	--	--	--	--
22...	1300	215	--	--	--	--	--	--	--	--	--	--
JUNE												
19...	360	50	100	<3	7	<10	--	<7	60	<.6	5	17
JULY												
24...	900	90	--	--	--	--	--	--	--	--	--	--
AUG.												
08...	--	130	800	--	--	--	<10	--	--	<.5	--	--
14...	230	--	440	<3	6	<15	--	13	36	<.8	10	17
SEP.												
25...	1000	60	--	--	--	--	--	--	--	--	--	--

07364205 Overflow Creek near Bonita, La.

LOCATION.--Lat 32°59'02", long 91°42'06", in SW¼NE¼ sec.13, T.23 N., R.7 E., Morehouse Parish, at bridge on Louisiana State Highway 834, 4.3 mi (6.9 km) northwest of Bonita.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT.												
24...	230	<25	17	7.0	62	12	8.5	<.10	.25	122	80	202
NOV.												
21...	--	--	--	--	11	--	5.0	--	--	--	--	--
DEC.												
18...	--	--	--	--	14	--	6.5	--	--	--	--	--
JAN.												
23...	465	230	2.0	4.0	7	4.1	3.5	.20	.17	38	70	108
FEB.												
20...	--	--	--	--	15	--	5.5	--	--	--	--	--
MAR.												
20...	--	--	--	--	13	--	4.5	--	--	--	--	--
APR.												
24...	1010	300	5.0	2.0	22	3.0	3.0	<.10	.23	94	10	104
MAY												
22...	--	--	--	--	33	--	4.0	--	--	--	--	--
JUNE												
19...	--	--	--	--	40	--	6.0	--	--	--	--	--
JULY												
24...	--	--	--	--	21	--	7.5	--	--	--	--	--
AUG.												
14...	--	--	--	--	82	--	10	--	--	--	--	--
SEP.												
25...	1750	419	14	4.0	53	4.0	10	1.0	.20	127	59	186

DATE	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.											
24...	71	42	168	7.0	16.0	80	70	4.1	41	26	7500
NOV.											
21...	--	--	50	6.3	9.0	--	<25	6.9	60	1.6	--
DEC.											
18...	--	--	67	6.6	4.0	--	<25	7.9	60	1.3	--
JAN.											
23...	21	5.0	45	6.4	10.0	100	25	5.9	53	1.2	3120
FEB.											
20...	--	--	43	6.6	8.0	--	<25	5.0	49	.9	--
MAR.											
20...	--	--	43	6.6	16.0	--	30	5.5	55	1.1	--
APR.											
24...	21	12	57	6.8	20.0	80	<25	4.1	45	4.3	813
MAY											
22...	--	--	78	6.9	24.0	--	26	2.6	31	2.2	2400
JUNE											
19...	--	--	83	7.0	20.0	--	13	1.0	13	4.3	200
JULY											
24...	--	--	60	7.0	--	--	86	3.0	--	1.7	2200
AUG.											
14...	--	--	177	7.4	20.0	--	27	1.6	18	1.5	400
SEP.											
25...	51	34	231	7.0	19.0	55	33	3.2	34	1.4	4200

07364203 Overflow Creek near Bonita, La.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 24...	216	290	17	2	<50	--	<10	<100	<.1	--	5
NOV. 21...	--	--	--	--	--	--	--	--	--	--	--
DEC. 18...	--	--	--	--	--	--	--	--	--	--	--
JAN. 23...	73	163	6	9	<100	<5	20	50	<.6	<50	153
FEB. 27...	--	--	--	--	--	--	--	--	--	--	--
MAR. 20...	--	--	--	--	--	--	--	--	--	--	--
APR. 24...	50	195	10	<5	<10	--	11	20	<.3	11	32
MAY 22...	205	--	--	--	--	--	--	--	--	--	--
JUNE 19...	20	--	--	--	--	--	--	--	--	--	--
JULY 24...	15	--	--	--	--	--	--	--	--	--	--
AUG. 14...	500	--	--	--	--	--	--	--	--	--	--
SEP. 25...	1060	3760	<3	6	<6	--	20	23	--	11	17

07364300 Chemin-a-Haut Bayou near Beekman, La.

LOCATION.--Lat 32°58'55", long 91°48'20", in SE¼ sec.15, T.23 N., R.6 E., Morehouse Parish, near center of span on downstream side of bridge on Parish Road, 1.9 mi (3.1 km) downstream from Arkansas-Louisiana State line, and 6 mi (9.7 km) northeast of Beekman.

DRAINAGE AREA.--271 mi² (702 km²).

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT. 24...	19	610	1760	22	1.0	42	6.0	22	<.10	.09	173	10
NOV. 21...	1890	--	--	--	--	0	--	3.5	--	--	--	--
DEC. 18...	2430	--	--	--	--	10	--	3.5	--	--	--	--
JAN. 23...	823	625	40	2.0	2.0	0	4.5	3.5	.20	.09	84	19
FEB. 20...	511	--	--	--	--	14	--	7.5	--	--	--	--
MAR. 20...	3100	--	--	--	--	10	--	3.5	--	--	--	--
APR. 24...	--	820	250	2.0	1.0	13	3.0	3.0	.31	.06	93	13
MAY 22...	219	--	--	--	--	24	--	5.5	--	--	--	--
JUNE 19...	57	--	--	--	--	47	--	15	--	--	--	--
JULY 24...	125	--	--	--	--	52	--	9.5	--	--	--	--
AUG. 14...	9.0	--	--	--	--	110	--	17	--	--	--	--
SEP. 25...	11	451	294	27	8.0	109	7.0	23	2.4	.07	191	29

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 24...	183	59	55	320	7.1	17.0	40	40	1.6	17	2.0	3400
NOV. 21...	--	--	--	63	6.4	8.0	--	<25	9.0	76	2.7	--
DEC. 18...	--	--	--	35	6.6	.0	--	<25	11.5	79	1.5	--
JAN. 23...	103	13	5.0	34	6.4	10.0	100	<25	7.3	65	1.6	1007
FEB. 20...	--	--	--	56	6.6	8.0	--	<25	9.6	81	.9	--
MAR. 20...	--	--	--	29	6.5	15.0	--	<25	6.6	63	.8	--
APR. 24...	106	9	5.0	42	6.5	20.0	80	<25	3.3	36	1.0	6300
MAY 22...	--	--	--	70	6.8	20.0	--	30	.6	7	1.1	840
JUNE 19...	--	--	--	162	7.3	20.0	--	23	4.8	49	1.0	800
JULY 24...	--	--	--	135	7.2	--	--	35	6.1	--	2.2	2300
AUG. 14...	--	--	--	201	7.8	24.0	--	10	2.0	33	.7	2000
SEP. 25...	220	100	67	291	7.6	20.0	20	8	5.3	50	1.3	300

07364300 Chemin-a-Haut Bayou near Beekman, La.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	1620	632	<3	3	<50	--	15	<100	<.1	<50	87
NOV.											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
23...	305	560	3	8	<100	<5	10	66	<.5	<50	67
FEB.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	63	100	10	<5	<10	--	12	23	<.4	9	56
MAY											
22...	500	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
24...	25	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	203	--	--	--	--	--	--	--	--	--	--
SEP.											
25...	100	500	<3	5	<6	--	<20	13	--	5	46

07364600 Bayou De Loutre near El Dorado, Ark.

LOCATION.--Lat 33°05'55", long 92°35'32", in SE¼NW¼ sec.6, T.19 S., R.14 W., Union County, at bridge on county road 0.6 mi (1.3 km) downstream from Highbank Creek, and 8.5 mi (13.7 km) southeast of El Dorado.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
24...	66	--	--	--	--	65	--	1000	--	--	--	--
NOV.												
21...	--	650	130	19	5.0	9	8.6	136	.25	.03	281	41
DEC.												
18...	385	--	--	--	--	6	--	110	--	--	--	--
JAN.												
23...	415	--	--	--	--	14	--	605	--	--	--	--
FEB.												
20...	66	--	200	60	14	23	17	540	<.10	.04	1049	20
MAR.												
20...	--	--	--	--	--	15	--	100	--	--	--	--
APR.												
24...	--	--	--	--	--	36	--	462	--	--	--	--
MAY												
22...	62	1400	1700	77	18	50	28	590	.24	.19	1202	83
JUNE												
19...	32	--	--	--	--	70	--	975	--	--	--	--
JULY												
24...	23	550	2600	196	32	67	13	1020	.21	.12	3159	108
AUG.												
13...	13	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	96	--	2500	--	--	--	--
SEP.												
24...	17	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	86	--	2150	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
24...	--	--	--	6880	6.9	20.0	--	25	4.2	46	4.0	--
NOV.												
21...	322	68	48	473	6.3	8.0	80	<25	7.0	66	.8	8300
DEC.												
18...	--	--	--	607	6.3	5.0	--	<25	11.0	86	4.7	--
JAN.												
23...	--	--	--	1330	6.6	12.0	--	<25	7.2	67	.9	--
FEB.												
20...	1077	210	150	1798	6.6	11.0	40	<25	12.3	111	1.4	1400
MAR.												
20...	--	--	--	542	6.6	14.0	--	<25	5.3	51	1.3	--
APR.												
24...	--	--	--	1705	6.7	20.0	--	<25	3.3	36	3.0	--
MAY												
22...	1285	270	192	2081	7.0	23.0	50	16	3.0	34	3.0	3000
JUNE												
19...	--	--	--	3172	7.2	30.0	--	12	3.7	49	3.5	--
JULY												
24...	3267	620	486	6851	7.2	30.0	45	6	2.3	31	1.9	4600
AUG.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	6670	7.6	28.0	--	3	6.8	87	4.2	625
SEP.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	6064	7.3	23.0	--	3	5.5	63	2.7	--

07364600 Bayou De Loutre near El Dorado, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	1150	660	6	7	<100	11	19	57	<.1	<50	17
DEC.											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	20	20	--	--	--	0	--	30	<.7	12	32
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	1700	--	--	--	--	--	--	--	--	--	--
MAY											
22...	466	174	45	11	<10	--	14	47	<.1	15	19
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
24...	1250	124	<3	25	10	--	19	170	<.6	4	45
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	500	--	--	--	--	--	--	--	--	--	--
SEP.											
24...	--	--	--	--	--	--	--	--	--	--	--
25...	1020	--	--	--	--	--	--	--	--	--	--

07365800 Cornie Bayou near Three Creeks, Ark.

LOCATION.--Lat 33°02'21", long 92°56'15", in SW¼NW¼ sec.36, T.19 S., R.18 W., Union County, at gaging station on left bank at downstream side of bridge on State Highway 15, 3.4 mi (5.5 km) downstream from Pidgeon Roost Creek, 6.0 mi (9.7 km) southwest of town of Three Creeks.

DRAINAGE AREA.--180 mi² (466 km²).

PERIOD OF RECORD.--Chemical analyses: May 1950 to September 1955, February 1956 to September 1962, October 1970 to September 1973.
Water temperatures: May 1950 to September 1955, February 1956 to July 1962.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
24...	18	--	--	--	--	23	--	160	--	--	--	--
NOV.												
21...	1050	750	400	2.0	2.0	2	3.9	34	.27	.05	92	51
DEC.												
18...	850	--	--	--	--	--	--	63	--	--	--	--
JAN.												
23...	541	--	--	--	--	2	--	73	--	--	--	--
FEB.												
20...	122	610	740	27	7.0	2	7.0	180	<.10	.02	352	25
MAR.												
20...	694	--	--	--	--	--	--	45	--	--	--	--
APR.												
24...	--	--	--	--	--	5	--	106	--	--	--	--
MAY												
22...	27	1520	600	30	7.0	5	5.0	185	.22	.03	390	32
JUNE												
19...	25	--	--	--	--	--	--	163	--	--	--	--
JULY												
24...	12	1700	740	38	7.0	6	5.0	219	2.3	.07	583	27
AUG.												
13...	12	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	185	--	--	--	--
SEP.												
24...	14	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	7	--	240	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
24...	--	--	--	238	6.7	20.0	--	40	3.4	37	8.3	--
NOV.												
21...	143	13	6.0	155	5.7	7.0	120	<25	8.8	72	2.3	4700
DEC.												
18...	--	--	--	217	--	4.0	--	--	--	--	--	--
JAN.												
23...	--	--	--	272	5.7	10.0	--	<25	7.3	65	1.0	--
FEB.												
20...	377	96	68	553	5.2	9.0	15	<25	10.2	88	1.0	75
MAR.												
20...	--	--	--	176	--	13.0	--	--	--	--	--	--
APR.												
24...	--	--	--	404	5.9	20.0	--	<25	5.7	62	1.2	520
MAY												
22...	422	100	74	579	6.1	22.0	30	13	5.8	66	1.5	430
JUNE												
19...	--	--	--	564	--	24.0	--	--	--	--	--	--
JULY												
24...	610	120	94	760	6.1	27.0	30	17	3.6	45	.5	700
AUG.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	514	--	24.0	--	--	--	--	--	50
SEP.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	736	6.3	22.0	--	18	5.5	63	1.3	<20

07365800 Cornie Bayou near Three Creeks, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	679	505	7	8	<100	<10	22	99	--	<50	29
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	0	0	4	6	<30	--	14	100	--	12	--
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	60	--	--	--	--	--	--	--	--	--	--
MAY											
22...	<430	100	15	6	<10	--	<10	100	<.3	27	25
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
24...	30	550	29	8	<15	--	5	100	<.1	54	26
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	10	--	--	--	--	--	--	--	--	--	--
SEP.											
24...	--	--	--	--	--	--	--	--	--	--	--
25...	6	--	--	--	--	--	--	--	--	--	--

07365860 Little Cornie Creek near Gordon, La.

LOCATION.--Lat 33°00'42", long 92°58'24", in NW¼SE¼ sec.3, T.23 N., R.6 W., Claiborne Parish, at bridge on Louisiana State Highway 161, 0.4 mi (0.6 km) south of Arkansas-Louisiana State line, and 3.9 mi (6.3 km) northeast of Gordon.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
24...	15	--	--	--	--	8	--	35	--	--	--	--
NOV.												
21...	351	600	110	2.0	2.0	5	11	6.5	.24	<.01	70	4
DEC.												
18...	186	--	--	--	--	--	--	12	--	--	--	--
JAN.												
23...	--	--	--	--	--	8	--	5.5	--	--	--	--
FEB.												
20...	19	590	180	7.0	2.0	6	7.0	40	<.10	.02	142	16
MAR.												
20...	132	--	--	--	--	--	--	18	--	--	--	--
APR.												
24...	--	--	--	--	--	13	--	23	--	--	--	--
MAY												
22...	3.5	1390	270	8.0	3.0	8	7.0	47	.24	.07	150	24
JUNE												
19...	2.5	--	--	--	--	--	--	32	--	--	--	--
JULY												
24...	--	1330	660	6.0	4.0	14	5.0	31	.27	.07	107	66
AUG.												
13...	6.8	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	16	--	--	--	--
SEP.												
24...	.00	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	17	--	35	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
24...	--	--	--	167	6.3	19.0	--	40	6.1	65	2.8	--
NOV.												
21...	74	13	4.0	82	6.3	7.0	160	<25	9.1	75	2.4	11600
DEC.												
18...	--	--	--	61	--	5.0	--	--	--	--	--	--
JAN.												
23...	--	--	--	46	6.1	10.0	--	3	6.9	62	.7	--
FEB.												
20...	158	26	18	166	6.6	10.0	60	<25	10.5	93	.9	342
MAR.												
20...	--	--	--	85	--	14.0	--	--	--	--	--	--
APR.												
24...	--	--	--	120	6.4	20.0	--	<25	5.6	61	1.6	3200
MAY												
22...	174	32	20	182	6.5	20.0	50	13	5.2	57	.7	700
JUNE												
19...	--	--	--	141	--	24.0	--	--	--	--	--	--
JULY												
24...	173	31	16	135	6.1	25.0	60	12	4.0	48	2.3	300
AUG.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	84	--	--	--	--	--	--	--	1700
SEP.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	94	6.7	21.0	--	12	5.4	60	1.5	6000

07365860 Little Cornie Creek near Gordon, La.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	530	353	7	4	<100	40	16	234	--	<50	20
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	7	7	7	5	<30	4	<5	240	<.4	<5	27
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	220	--	--	--	--	--	--	--	--	--	--
MAY											
22...	75	140	11	2	<10	--	<10	65	<.1	10	0
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
24...	126	620	<3	3	<15	--	<4	190	<.1	20	26
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	120	--	--	--	--	--	--	--	--	--	--
SEP.											
24...	--	--	--	--	--	--	--	--	--	--	--
25...	1250	--	--	--	--	--	--	--	--	--	--

07365900 Three Creeks near Three Creeks, Ark.

LOCATION.--Lat 33°04'01", long 92°53'02", in NE¼NW¼ sec.20, T.19 S., R.17 W., Union County, at gaging station near right bank on downstream side of bridge on State Highway 15, 2.2 mi (3.5 km) southwest of town of Three Creeks, and 1.8 mi (2.9 km) upstream from Ash Branch.

DRAINAGE AREA.--50.3 mi² (130.3 km²).

PERIOD OF RECORD.--Chemical analyses: May 1950 to September 1955, February 1956 to September 1962, October 1970 to September 1973.
Water temperatures: May 1950 to September 1955, February 1956 to September 1962.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
24...	67	--	--	--	--	5	--	50	--	--	--	--
NOV.												
21...	720	650	230	7.0	3.0	2	7.0	40	.30	.04	71	63
DEC.												
18...	285	--	--	--	--	--	--	56	--	--	--	--
JAN.												
23...	370	--	--	--	--	3	--	128	--	--	--	--
FEB.												
20...	39	400	690	31	6.0	3	6.0	210	.19	.02	429	8
MAR.												
20...	165	--	--	--	--	--	--	63	--	--	--	--
APR.												
24...	--	--	--	--	--	7	--	106	--	--	--	--
MAY												
22...	--	1020	1970	52	12	4	7.0	320	<.10	.03	643	56
JUNE												
19...	--	--	--	--	--	--	--	223	--	--	--	--
JULY												
24...	5.6	1920	1230	44	10	--	5.0	270	.23	.10	610	110
AUG.												
13...	7.6	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	3400	--	--	--	--
SEP.												
24...	3.2	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	7	--	185	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PER-CENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
24...	--	--	--	200	6.0	18.0	--	45	4.6	48	3.8	--
NOV.												
21...	134	30	18	155	5.6	7.0	120	<25	9.3	77	1.3	3000
DEC.												
18...	--	--	--	192	--	4.0	--	--	--	--	--	--
JAN.												
23...	--	--	--	456	5.6	10.0	--	<25	7.2	64	.5	--
FEB.												
20...	437	110	78	654	5.7	9.0	15	<25	10.4	90	.4	0
MAR.												
20...	--	--	--	242	--	14.0	--	--	--	--	--	--
APR.												
24...	--	--	--	406	6.2	20.0	--	<25	5.7	63	1.6	2650
MAY												
22...	699	180	130	1020	5.9	21.0	10	11	.7	64	.9	>84
JUNE												
19...	--	--	--	694	--	24.0	--	--	--	--	--	--
JULY												
24...	720	150	110	924	5.3	27.0	30	20	3.6	45	.2	575
AUG.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	1074	--	23.0	--	--	--	--	--	350
SEP.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	551	6.2	21.0	--	12	5.1	57	1.1	400

07365900 Three Creeks near Three Creeks, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	525	173	7	8	<100	<10	<10	392	<.1	<50	29
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	0	0	<3	7	<30	9	9	160	<.4	12	33
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	800	--	--	--	--	--	--	--	--	--	--
MAY											
22...	57	84	<3	6	<10	--	<10	59	<.4	19	47
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
24...	26	212	<3	9	<15	--	5	160	<.1	9	1200
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
14...	20	--	--	--	--	--	--	--	--	--	--
SEP.											
24...	--	--	--	--	--	--	--	--	--	--	--
25...	140	--	--	--	--	--	--	--	--	--	--

07366105 Little Cornie Bayou east of Junction City, Ark.

LOCATION.--Lat 33°01'15", long 92°42'00", in SW¼SW¼ sec.31, T.19 S., R.15 W., Union County, at bridge on county road, 0.5 mi (0.8 km) north of Arkansas-Louisiana State line, and 1.5 mi (2.4 km) northeast of Junction City.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
OCT.												
24...	54	--	--	--	--	23	--	26	--	--	--	--
NOV.												
21...	--	600	270	7.0	2.0	2	10	26	.10	.02	76	68
DEC.												
18...	--	--	--	--	--	6	--	29	--	--	--	--
JAN.												
23...	312	--	--	--	--	5	--	35	--	--	--	--
FEB.												
20...	112	400	340	13	5.0	7	6.0	70	<.10	.02	204	10
MAR.												
20...	352	--	--	--	--	7	--	20	--	--	--	--
APR.												
24...	--	--	--	--	--	13	--	44	--	--	--	--
MAY												
22...	64	1270	200	9.0	3.0	13	5.0	42	.43	.07	130	32
JUNE												
19...	10	--	--	--	--	12	--	126	--	--	--	--
JULY												
24...	16	1200	4500	14	3.0	19	6.0	66	.10	.13	100	76
AUG.												
13...	19	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	38	--	95	--	--	--	--
SEP.												
24...	6.0	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	10	--	105	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT.												
24...	--	--	--	163	6.0	18.0	--	50	6.0	63	4.3	--
NOV.												
21...	144	26	10	117	5.6	7.0	120	<25	9.1	75	2.2	7500
DEC.												
18...	--	--	--	111	5.9	5.0	--	<25	11.0	86	1.0	--
JAN.												
23...	--	--	--	146	5.9	11.0	--	<25	6.6	60	1.4	--
FEB.												
20...	214	53	32	270	6.1	10.0	40	<25	10.5	93	1.3	350
MAR.												
20...	--	--	--	87	6.2	13.0	--	<25	6.1	58	1.1	--
APR.												
24...	--	--	--	193	6.4	20.0	--	<25	4.9	53	1.5	3500
MAY												
22...	170	35	22	167	6.0	21.0	50	16	6.1	68	1.2	3000
JUNE												
19...	--	--	--	632	6.4	25.0	--	16	5.0	60	1.3	--
JULY												
24...	264	67	36	261	6.0	29.0	50	18	4.2	54	.9	600
AUG.												
13...	--	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	313	7.5	27.0	--	20	5.6	70	.3	<700
SEP.												
24...	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	550	6.3	24.0	--	8	6.4	75	2.2	4000

07366105 Little Cornie Bayou east of Junction City, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	650	473	7	10	<100	<10	<10	35	<.1	<50	15
DEC.											
18...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	30	4	7	5	<30	4	5	190	<.5	9	19
MAR.											
20...	--	--	--	--	--	--	--	--	--	--	--
APR.											
24...	1100	--	--	--	--	--	--	--	--	--	--
MAY											
22...	146	105	8	<2	<10	--	<10	150	<.3	14	12
JUNE											
19...	--	--	--	--	--	--	--	--	--	--	--
JULY											
24...	200	500	13	4	<15	--	19	100	<.2	14	65
AUG.											
13...	--	--	--	--	--	--	--	--	--	--	--
16...	700	--	--	--	--	--	--	--	--	--	--
SEP.											
24...	--	--	--	--	--	--	--	--	--	--	--
25...	325	--	--	--	--	--	--	--	--	--	--

07367695 Lafourche Bayou near Wilmot, Ark.

LOCATION.--Lat 33°03'09", long 91°24'47", in SW¼SE¼ sec.9, T.19 S., R.3 W., Chicot County, at bridge on State Highway 52, 8.9 mi (14.3 km) east of Wilmot.

PERIOD OF RECORD.--Chemical analyses: October 1970 to September 1973.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)	TOTAL RESI-DUE (MG/L)
OCT. 24...	--	--	--	--	159	--	185	--	--	--	--	--
NOV. 21...	--	--	--	--	15	--	10	--	--	--	--	--
DEC. 18...	1530	<20	6.0	3.0	10	<1.0	2.5	.75	.18	143	94	237
JAN. 23...	--	--	--	--	21	--	3.5	--	--	--	--	--
FEB. 20...	--	--	--	--	38	--	19	--	--	--	--	--
MAR. 20...	1490	110	6.0	5.0	25	<1.0	4.0	2.1	.34	181	145	326
APR. 24...	--	--	--	--	33	--	3.5	--	--	--	--	--
MAY 22...	--	--	--	--	179	--	122	--	--	--	--	--
JUNE 19...	1070	190	18	7.0	50	12	29	.03	.39	168	166	334
JULY 24...	--	--	--	--	68	--	44	--	--	--	--	--
AUG. 14...	217	175	60	29	161	33	170	.10	.08	550	35	585
SEP. 25...	--	--	--	--	79	--	66	--	--	--	--	--

DATE	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT. 24...	--	--	986	8.1	19.0	--	60	7.3	78	2.4	--
NOV. 21...	--	--	56	6.7	7.0	--	150	9.0	74	1.9	--
DEC. 18...	27	16	49	6.7	4.0	240	140	10.6	81	1.5	2500
JAN. 23...	--	--	53	7.0	11.0	--	650	7.7	69	2.4	--
FEB. 20...	--	--	153	7.1	8.0	--	210	9.1	76	1.6	--
MAR. 20...	36	16	55	6.9	14.0	240	230	7.3	71	1.7	2300
APR. 24...	--	--	83	7.0	22.0	--	180	3.5	41	1.4	6300
MAY 22...	--	--	777	8.0	25.0	--	8	11.7	132	4.3	1300
JUNE 19...	74	46	210	7.3	30.0	45	150	4.2	56	1.7	625
JULY 24...	--	--	306	7.6	--	--	25	8.1	--	3.1	24
AUG. 14...	270	150	884	8.0	28.0	5	6	8.8	113	3.5	183
SEP. 25...	--	--	312	7.9	24.0	--	8	7.9	94	2.3	100

07367695 Lafourche Bayou near Wilmot, Ark.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXA-VALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
18...	230	1600	--	7	<100	<5	<10	25	<1.0	<50	10
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	300	960	4	5	<10	--	15	76	<.5	8	41
APR.											
24...	450	--	--	--	--	--	--	--	--	--	--
MAY											
22...	40	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	50	40	9	4	<10	--	<7	70	<.4	<1	32
JULY											
24...	40	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	<4	44	<3	6	<15	--	<10	20	<.8	<8	16
SEP.											
25...	100	--	--	--	--	--	--	--	--	--	--

07367700 Boeuf River near Arkansas-Louisiana State line

LOCATION.--Lat 32°58'25", long 91°26'25", in NE¼NE¼ sec.21, T.23 N., R.10 E., Morehouse-West Carroll Parish line at gaging station near left bank on downstream side of bridge on State Highway 835, 2.0 mi (3.2 km) downstream from Arkansas-Louisiana State line, and 7.5 mi (12.1 km) southwest of Kilbourne, La.

DRAINAGE AREA.--785 mi² (2,033 km²).

PERIOD OF RECORD.--Chemical analyses: December 1971 to September 1973.

REMARKS.--Interconnecting system of bayous and drainage ditches produces an interchange of flow under varying conditions; hence, the drainage limits were more or less arbitrarily determined. Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
24...	--	--	--	--	--	170	--	80	--	--	--	--
NOV.												
21...	10500	--	--	--	--	16	--	9.0	--	--	--	--
DEC.												
18...	7040	1750	<20	6.0	2.0	22	1.0	3.0	.25	.05	163	142
JAN.												
23...	8600	--	--	--	--	26	--	5.0	--	--	--	--
FEB.												
20...	526	--	--	--	--	67	--	12	--	--	--	--
MAR.												
20...	--	1440	220	7.0	3.0	26	<1.0	4.0	2.0	.30	208	136
APR.												
24...	--	--	--	--	--	29	--	3.5	--	--	--	--
MAY												
22...	430	--	--	--	--	87	--	31	--	--	--	--
JUNE												
19...	173	2270	150	37	1.0	50	15	42	1.5	.37	197	291
JULY												
24...	--	--	--	--	--	50	--	16	--	--	--	--
AUG.												
14...	--	800	133	30	--	98	--	35	.80	.17	213	64
SEP.												
25...	15	--	--	--	--	137	--	65	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
24...	--	--	--	690	8.0	17.0	--	65	8.2	85	1.8	--
NOV.												
21...	--	--	--	62	6.8	7.0	--	220	9.5	78	7.3	--
DEC.												
18...	305	27	16	56	6.9	4.0	240	270	11.5	88	2.1	--
JAN.												
23...	--	--	--	63	7.0	11.0	--	800	7.9	72	2.9	--
FEB.												
20...	--	--	--	137	7.3	8.0	--	270	10.5	89	1.7	--
MAR.												
20...	344	30	18	53	7.0	15.0	320	210	7.4	73	1.8	1950
APR.												
24...	--	--	--	78	7.0	20.0	--	500	6.8	75	2.6	--
MAY												
22...	--	--	--	308	7.7	25.0	--	116	7.5	89	2.7	2500
JUNE												
19...	408	97	92	287	7.5	29.0	15	230	5.7	76	2.2	--
JULY												
24...	--	--	--	163	7.3	--	--	200	5.9	--	1.2	1100
AUG.												
14...	277	116	76	323	7.9	25.0	10	45	6.3	76	1.4	--
SEP.												
25...	--	--	--	409	7.0	21.0	--	17	7.1	79	1.1	8000

07367700 Boeuf River near Arkansas-Louisiana State line--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
19...	--	--	17	2	<100	13	<10	30	<.5	<50	19
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	450	1412	6	4	<10	--	23	310	<.3	9	57
APR.											
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	200	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	--	--	8	6	<10	--	35	120	<.4	8	67
JULY											
24...	176	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	--	--	--	--	--	--	20	67	<.0	<8	20
SEP.											
25...	<6000	--	--	--	--	--	--	--	--	--	--

07369700 Bayou Macon near Kilbourne, La.

LOCATION.--Lat 32°59'35", long 91°15'45", in SW¼SE¼ sec.8, T.23 N., R.12 E., East Carroll-West Carroll Parish line, at gaging station at bridge on Louisiana State Highway 585, 0.8 mi (1.3 km) south of Arkansas-Louisiana State line, and 3.0 mi (4.8 km) east of Kilbourne.

DRAINAGE AREA.--504 mi² (1,305 km²), arbitrarily determined.

PERIOD OF RECORD.--Chemical analyses: October 1957 to September 1958, October 1967 to September 1973. Water temperatures: October 1967 to September 1968.

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	MEAN DAILY DIS-CHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED CAL-CIUM (CA) (MG/L)	DIS-SOLVED MAG-NE-SIUM (MG) (MG/L)	ALKA-LINITY AS CACO3 (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLO-RIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	TOTAL FILT-RABLE RESIDUE (MG/L)	TOTAL NON-FILT-RABLE RESIDUE (MG/L)
OCT.												
24...	70	--	--	--	--	147	--	25	--	--	--	--
NOV.												
21...	2250	--	--	--	--	67	--	13	--	--	--	--
DEC.												
18...	2660	1950	<20	12	6.0	47	<1.0	6.5	.27	.08	161	70
JAN.												
23...	1040	--	--	--	--	46	--	5.5	--	--	--	--
FEB.												
20...	1500	--	--	--	--	49	--	8.0	--	--	--	--
MAR.												
20...	--	1920	120	12	4.0	37	<1.0	6.0	3.0	.43	240	202
APR.												
24...	--	--	--	--	--	51	--	6.5	--	--	--	--
MAY												
22...	1120	--	--	--	--	78	--	8.5	--	--	--	--
JUNE												
19...	320	1800	140	33	12	125	10	11	.03	.31	185	155
JULY												
24...	315	--	--	--	--	132	--	16	--	--	--	--
AUG.												
14...	--	1190	110	36	16	137	13	21	.37	.21	212	76
SEP.												
25...	162	--	--	--	--	[illegible]	--	25	--	--	--	--

DATE	TOTAL RESI-DUE (MG/L)	HARD-NESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)	PH (UNITS)	TEMPER-ATURE (DEG C)	COLOR (PLAT-INUM-COBALT UNITS)	TUR-BID-ITY (JTU)	DIS-SOLVED OXYGEN (MG/L)	PER-CENT SATUR-ATION	BIO-CHEM-ICAL OXYGEN DEMAND (MG/L)	IMME-DIATE COLI-FORM (COL. PER 100 ML)
OCT.												
24...	--	--	--	432	7.8	18.0	--	50	7.2	76	1.5	--
NOV.												
21...	--	--	--	192	7.5	10.0	--	120	8.9	79	2.6	--
DEC.												
18...	231	55	30	117	7.3	5.0	120	140	10.5	82	1.2	2916
JAN.												
23...	--	--	--	113	7.2	9.0	--	310	10.1	87	1.4	--
FEB.												
20...	--	--	--	124	7.5	8.0	--	330	10.1	86	1.0	--
MAR.												
20...	450	46	30	85	7.2	11.0	400	340	6.9	62	1.3	4250
APR.												
24...	--	--	--	126	7.3	19.0	--	320	7.2	77	1.4	--
MAY												
22...	--	--	--	177	7.6	25.0	--	190	6.5	78	1.8	1600
JUNE												
19...	340	130	82	285	7.8	29.0	5	80	4.8	62	1.2	--
JULY												
24...	--	--	--	320	8.0	--	--	48	6.8	--	2.6	800
AUG.												
14...	288	140	86	339	8.0	26.0	5	40	5.6	68	2.2	--
SEP.												
25...	--	--	--	395	7.9	23.0	--	32	5.2	60	.8	550

07369700 Bayou Macon near Kilbourne, La.--Continued

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV.											
21...	--	--	--	--	--	--	--	--	--	--	--
DEC.											
18...	410	1320	17	5	<100	<5	10	43	<.4	<50	17
JAN.											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB.											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
20...	308	2650	12	8	<10	--	16	200	<.3	10	64
APR.											
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
22...	900	--	--	--	--	--	--	--	--	--	--
JUNE											
19...	--	--	4	7	<10	--	15	110	<.4	3	36
JULY											
24...	42	--	--	--	--	--	--	--	--	--	--
AUG.											
14...	--	--	<3	7	<15	--	15	36	<.8	<8	11
SEP.											
25...	70	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

WHITE RIVER BASIN

07050110 White River near Golden, Mo. (Lat 36 31 56 Long 093 42 52)

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)
OCT. 03...	350	60	37	7.0	47	7.6	4.5	.16	.06	133

DATE	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)
OCT. 03...	28	161	120	92	230	7.9	17.0	40	45	8.0

DATE	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT. 03...	82	1.1	<2	<50	77	<100	<.1	<50	28

ARKANSAS RIVER BASIN

07250000 Lee Creek near Van Buren, Ark. (Lat 35 29 40 Long 094 26 50)

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)	TOTAL RESIDUE (MG/L)
OCT. 03...	150	<25	14	3.0	19	3.1	7.0	<.10	<.01	60	1	61
NOV. 27...	--	--	--	--	104	--	5.0	--	--	--	--	--
JAN. 02...	--	--	--	--	--	--	--	--	--	--	--	--
16...	160	40	9.0	2.0	25	10	4.5	<.10	<.01	70	--	70
APR. 03...	--	--	--	--	24	--	3.5	--	--	--	--	--
JUNE 18...	--	--	--	--	35	--	4.0	--	--	--	--	--
JULY 16...	--	--	--	--	38	--	4.5	--	--	--	--	--
SEP. 18...	656	206	14	3.0	46	7.0	6.5	<.10	.05	66	24	90

DATE	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
OCT. 03...	47	36	116	7.8	21.0	5	20	9.4	104	2.1	1275
NOV. 27...	--	--	205	7.8	7.0	--	<25	10.8	89	1.1	--
JAN. 02...	--	--	--	--	--	--	--	--	--	--	0
16...	31	20	72	7.2	6.0	15	<25	13.0	104	2.2	--
APR. 03...	--	--	60	7.1	11.0	--	<25	10.5	95	.5	300
JUNE 18...	--	--	78	7.5	28.0	--	7	8.8	112	1.1	--
JULY 16...	--	--	83	7.6	29.5	--	8	8.6	112	.8	280
SEP. 18...	47	36	100	7.7	25.0	0	11	9.3	112	3.3	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

ARKANSAS RIVER BASIN--CONTINUED

07250000 Lee Creek near Van Buren, Ark. (Lat 35 29 40 Long 094 26 50)--Continued

DATE	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.											
03...	96	300	--	<2	<50	--	20	<100	<.1	50	5
NOV.											
27...	--	--	--	--	--	--	--	--	--	--	--
JAN.											
02...	9	30	--	--	--	--	--	--	--	--	--
16...	--	--	<3	<2	<100	5	<10	21	<.3	<50	4
APR.											
03...	40	112	--	--	--	--	--	--	--	--	--
JUNE											
18...	--	--	--	--	--	--	--	--	--	--	--
JULY											
16...	84	--	--	--	--	--	--	--	--	--	--
SEP.											
18...	--	--	<3	<2	<4	--	20	<4	--	<4	<4

07263300 Lake Maumelle at Natural Steps, Ark. (Lat 34 51 57 Long 092 29 20)

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED PO-TAS-SIUM (K) (MG/L)	PERCENT SODIUM
OCT.					
06...	<10	<10	--	--	--
FEB.					
02...	40	10	1.5	.9	0
MAY					
11...	70	20	--	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CAD-MIUM (CD) (UG/L)	HEXA-VALENT CHRO-MIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.								
06...	<10	0	<10	0	0	0	<.5	<10
FEB.								
02...	<10	0	<10	1	1	--	<.5	10
MAY								
11...	<10	0	<10	1	1	0	<.5	<10

RED RIVER BASIN

07341500 Reu River at Fulton, Ark. (Lat 33 36 26 Long 093 48 49)

REMARKS.--Records furnished by Corps of Engineers, New Orleans, La.

DATE	DEPTH TOTAL (FT)	DEPTH SAMPLED (FT)	CHLORIDE CL (MG/L)	DATE	DEPTH TOTAL (FT)	DEPTH SAMPLED (FT)	CHLORIDE CL (MG/L)
NOV.				MAY			
28...	27.2	16.3	21	01...	17.2	10.2	83
28...	29.3	17.5	18	01...	26.0	15.6	77
JAN.				JUNE			
30...	25.6	15.1	14	26...	15.0	9.0	84
30...	30.0	18.0	14	26...	32.0	18.2	82
FEB.				JULY			
27...	12.0	7.2	96	31...	21.0	12.6	221
27...	16.0	9.6	100	31...	22.0	13.2	192
APR.				SEP.			
03...	31.0	18.6	33	11...	28.0	18.0	20
03...	34.0	20.4	31	11...	30.0	16.8	19

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--CONTINUED

07344340 Sulphur River near Fort Lynn, Ark. (Lat 33 08 58 Long 093 53 32)

REMARKS.--Records furnished by Corps of Engineers, New Orleans, La.

DATE	TIME (24-HR)	DEPTH OF COLLECTION (FEET)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)
JULY 05...	1900	2.0	700	6.7	29.5	2.7
		5.0	500	6.7	29.5	2.6
		10.0	400	6.7	29.6	2.2
		15.0	400	6.8	29.6	2.2
12...	1900	2.0	500	6.8	30.1	2.9
		5.0	400	6.8	29.8	2.8
		10.0	400	6.8	29.7	1.9
		15.0	400	6.7	29.6	1.4
		20.0	400	6.7	29.6	1.2
		25.0	400	6.7	29.5	1.1
19...	1850	2.0	300	6.8	30.2	3.4
		5.0	300	6.8	30.1	3.6
		10.0	300	6.8	30.2	3.4
		15.0	300	6.8	30.2	3.4
		20.0	300	6.8	30.2	3.1
		25.0	300	6.8	30.2	3.0
26...	1745	2.0	800	7.0	24.8	6.1
		5.0	600	7.0	24.2	6.1
		10.0	500	7.0	23.8	6.0
AUG. 02...	1830	2.0	400	6.9	30.9	7.8
		5.0	400	6.9	30.8	6.9
		10.0	400	7.0	30.2	5.3
		15.0	400	7.0	30.4	6.8
		20.0	400	7.0	30.6	.9
09...	1800	2.0	400	7.2	29.8	2.5
		5.0	400	7.1	29.6	2.4
		10.0	300	7.0	28.7	1.9
		15.0	400	6.9	28.2	.6
		20.0	400	6.8	27.7	.3
16...	1745	2.0	300	6.9	31.0	3.9
		5.0	300	6.7	30.4	3.6
		10.0	300	6.7	30.3	3.4
		15.0	300	6.7	30.2	3.3
23...	1830	2.0	400	7.4	32.3	4.8
		5.0	400	7.1	29.7	2.7
		10.0	300	7.0	29.5	1.7
		15.0	300	6.9	29.5	1.6
30...	1800	2.0	500	6.0	30.0	4.3
		5.0	500	5.9	28.7	2.8
		10.0	500	5.8	28.6	2.0
		15.0	600	5.8	28.3	1.4
SEPT. 07...	1815	2.0	100	6.8	28.7	4.3
		5.0	100	5.9	28.6	2.8
		10.0	100	5.9	28.3	2.8
		15.0	100	5.8	28.3	2.5
		20.0	100	5.5	27.5	1.1
13...	1800	2.0	300	6.8	26.7	4.2
		5.0	300	6.8	26.9	6.8
20...	1800	2.0	100	--	25.7	--
27...	1820	2.0	200	7.1	27.5	3.9
		5.0	200	7.0	27.4	4.1
		10.0	200	6.8	27.4	4.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--CONTINUED

07348615 Bayou Dorcheat near Bussey, Ark. (Lat 33 12 24 Long 093 23 57)

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

DATE	DISSOLVED CHLORIDE (CL) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	TEMPERATURE (DEG C)	DISSOLVED OXYGEN (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)
NOV.						
07...	306	959	14.0	--	--	--
20...	121	384	6.0	--	--	--
MAR.						
06...	47	177	15.0	--	--	--
APR.						
10...	57	216	10.0	--	--	--
MAY						
08...	36	226	22.0	--	5000	450
JUNE						
05...	90	336	22.0	--	--	--
JULY						
10...	225	701	24.0	--	1400	25
31...	81	317	26.0	3.3	--	--
SEP.						
11...	80	311	26.0	--	--	--

07349455 Bear Creek near Arkana, Ark. (Lat 33 01 56 Long 093 37 37)

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

DATE	INSTANTANEOUS DISCHARGE (CFS)	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	TOTAL NITRATE (N) (MG/L)	TOTAL PHOSPHORUS (P) (MG/L)	TOTAL FILTRABLE RESIDUE (MG/L)	TOTAL NONFILTRABLE RESIDUE (MG/L)
NOV.												
07...	28	--	--	--	--	7	--	4.0	--	--	--	--
20...	3.3	300	50	4.0	2.0	--	7.0	3.5	.25	.02	76	10
FEB.												
06...	1.5	--	--	--	--	8	--	3.0	--	--	--	--
MAR.												
06...	6.5	600	65	3.0	3.0	9	3.0	--	.26	.03	84	17
APR.												
10...	2.0	--	--	--	--	12	--	4.0	--	--	--	--

DATE	TOTAL RESIDUE (MG/L)	HARDNESS (CA,MG) (MG/L)	CALCIUM AS CACO3 (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)
NOV.												
07...	--	--	--	40	6.0	16.0	--	<25	5.7	57	3.5	--
20...	86	18	10	36	5.9	8.0	120	<25	9.5	80	1.3	787
FEB.												
06...	--	--	--	35	6.4	13.0	--	<25	7.2	68	.9	--
MAR.												
06...	101	20	8.0	--	6.4	--	100	<25	--	--	1.7	325
APR.												
10...	--	--	--	39	6.5	9.0	--	<25	8.8	76	1.6	638

DATE	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	TOTAL CHROMIUM (CR) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL NICKEL (NI) (UG/L)	TOTAL ZINC (ZN) (UG/L)
NOV.											
07...	--	--	--	--	--	--	--	--	--	--	--
20...	20	30	<3	4	<100	5	<10	2	<.1	<50	29
FEB.											
06...	--	--	--	--	--	--	--	--	--	--	--
MAR.											
06...	60	67	10	<3	<7	--	<10	37	<.4	8	15
APR.											
10...	140	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--CONTINUED

07362390 Ouachita River at Calion, Ark. (Lat 33 20 19 Long 092 31 47)

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	TEMPERATURE (DEG C)	TURBIDITY (JTU)	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	BIOCHEMICAL OXYGEN DEMAND (MG/L)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)
DEC.												
18...	10	42	166	6.3	4.0	<25	9.3	71	3.4	--	--	--
JAN.												
23...	--	--	--	--	--	--	--	--	--	4441	497	8
APR.												
24...	--	--	--	--	--	--	--	--	--	3000	146	240
MAY												
22...	--	--	--	--	--	--	--	--	--	125	>125	--
JUNE												
19...	--	--	--	--	--	--	--	--	--	--	40	--
JULY												
24...	--	--	--	--	--	--	--	--	--	1340	--	--
SEP.												
25...	--	--	--	--	--	--	--	--	--	220	<12	<13

07362590 Lake Winona at Reform, Ark. (Lat 34 47 51 Long 092 50 43)

DATE	TOTAL IRON (FE) (UG/L)	TOTAL MANGANESE (MN) (UG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	PERCENT SODIUM
OCT.					
06...	<10	<10	--	--	--
FEB.					
02...	120	<10	1.0	.8	0
MAY					
11...	80	20	--	--	--

DATE	TOTAL ARSENIC (AS) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	HEXAVALENT CHROMIUM (CR6) (UG/L)	TOTAL COBALT (CO) (UG/L)	TOTAL COPPER (CU) (UG/L)	TOTAL LEAD (PB) (UG/L)	TOTAL MERCURY (HG) (UG/L)	TOTAL ZINC (ZN) (UG/L)
OCT.								
06...	<10	0	<10	0	0	0	<.5	<10
FEB.								
02...	<10	0	<10	1	2	--	<.5	10
MAY								
11...	<10	0	<10	1	1	0	<.5	<10

07364150 Bayou Bartholomew near McGehee, Ark. (Lat 33 37 40 Long 091 26 45)

DATE	INSTANTANEOUS DISCHARGE (CFS)	DISSOLVED SILICA (SIO2) (MG/L)	DISSOLVED IRON (FE) (UG/L)	DISSOLVED MANGANESE (MN) (UG/L)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	CARBONATE (CO3) (MG/L)
OCT.										
25...	16	10	0	300	29	9.3	19	3.6	146	0

DATE	ALKALINITY AS CACO3 (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED FLUORIDE (F) (MG/L)	DISSOLVED NITRATE (N) (MG/L)	DIS_ SOLVED NITRATE (NO3) (MG/L)	DISSOLVED AMMONIA NITROGEN (N) (MG/L)	DIS_ SOLVED AMMONIA (NH4) (MG/L)	ORGANIC NITROGEN (N) (MG/L)
OCT.									
25...	120	3.2	24	.0	.20	.90	.00	.00	.00

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--CONTINUED

07364150 Bayou Bartholomew near McGehee, Ark. (Lat 33 37 40 Long 091 26 45)--Continued

DATE	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	DIS- SOLVED SOLIDS (TONS PER DAY)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO	PH (UNITS)
OCT. 25...	.02	189	.26	8.16	110	0	26	.8	8.0

DATE	COLOR (PLAT- INUM- COBALT UNITS)	TUR- BID- ITY (MG/L)	CHEM- ICAL OXYGEN DEMAND (LOW LEVEL) (MG/L)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	CARBON DIOXIDE (CO2) (MG/L)	IMME- DIATE COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)	STREP- TOCOCCI (COL- ONIES PER 100 ML)	TOTAL ORGANIC CARBON (C) (MG/L)
OCT. 25...	2	40	4	1.0	2.3	520	E95	120	18

DATE	ALDRIN (UG/L)	ALDRIN IN BOTTOM DE- POSITS (UG/KG)	CHLOR- DANE (UG/L)	CHLOR- DANE IN BOTTOM DE- POSITS (UG/KG)	DDD (UG/L)	DDD IN BOTTOM DE- POSITS (UG/KG)	DDE (UG/L)	DDE IN BOTTOM DE- POSITS (UG/KG)	DDT (UG/L)	DDT IN BOTTOM DE- POSITS (UG/KG)	DI- AZINON (UG/L)
OCT. 25...	.00	.0	.0	0	.00	60	.00	56	.00	4.4	.00

DATE	DI- ELDRIN (UG/L)	DI- ELDRIN IN BOTTOM DE- POSITS (UG/KG)	ENDRIN (UG/L)	ENDRIN IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR (UG/L)	HEPTA- CHLOR IN BOTTOM DE- POSITS (UG/KG)	HEPTA- CHLOR EPOXIDE (UG/L)	HEPTA- CHLOR EPOXIDE IN BOT- TOM DE- POSITS (UG/KG)	LINDANE (UG/L)	LINDANE IN BOTTOM DE- POSITS (UG/KG)	MALA- THION (UG/L)
OCT. 25...	.00	.0	.00	.0	.00	.0	.00	.0	.00	.0	.00

DATE	METHYL PARA- THION (UG/L)	PARA- THION (UG/L)	PCB (UG/L)	PCB IN BOTTOM DE- POSITS (UG/KG)	2,4-D (UG/L)	2,4-D IN BOTTOM DE- POSITS (UG/KG)	2,4,5-T (UG/L)	2,4,5-T IN BOTTOM DE- POSITS (UG/KG)	SILVEX (UG/L)	SILVEX IN BOTTOM DE- POSITS (UG/KG)
OCT. 25...	.00	.00	.0	0	.00	.0	.10	.0	.00	.0

DATE	DIS- SOLVED ARSENIC (AS) (UG/L)	DIS- SOLVED CAD- MIUM (CD) (UG/L)	HEXA- VALENT CHRO- MIUM (CR6) (UG/L)	DIS- SOLVED COBALT (CO) (UG/L)	DIS- SOLVED COPPER (CU) (UG/L)	DIS- SOLVED LEAD (PB) (UG/L)	DIS- SOLVED MERCURY (HG) (UG/L)	DIS- SOLVED NICKEL (NI) (UG/L)	DIS- SOLVED ZINC (ZN) (UG/L)
OCT. 25...	<10	0	<10	0	2	1	<.5	0	7

FIELD ANALYSES

DATE	INSTAN- TANEOUS DIS- CHARGE (CFS)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	CARBON DIOXIDE (CO2) (MG/L)
OCT. 25...	16	154	0	126	294	7.6	7.4	72	6.2

CHEMICAL ANALYSES, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

RED RIVER BASIN--CONTINUED

07364150 Bayou Bartholomew near McGehee, Ark. (Lat 33 37 40 Long 091 26 45)--Continued

BENTHIC INVERTEBRATE ANALYSES

JULY 23, 1973, COLLECTED BY A MULTIPLE-PLATE SAMPLER ATTACHED TO BRIDGE ON JUNE 23, 1973, AND REMOVED JULY 23, 1973

TAXA	NO.	BIOMASS g/m^2
Amphipoda	7	
Ephemeroptera	49	2.69
Diptera (Chironomidae)	23	

JULY 23, 1973, RANDOM SAMPLE COLLECTED FROM BRIDGE TO 200 YARDS (183 M) UPSTREAM WITH A 210 u NITEX SIEVE

Annelida (Hirudenia)	1
Amphipoda	10
Decapoda	4
Ephemeroptera	2
Coleoptera (Gyrinidae)	3
Coleoptera (Dytiscidae)	2
Pelecypoda	1

07367684 Boeuf River near Indian, Ark. (Lat 33 03 07 Long 091 23 07)

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
DEC.			
18...	4700	6670	4000
JUNE			
19...	1160	110	73
AUG.			
14...	90	20	62

07369684 Bayou Macon near Readland, Ark. (Lat 33 03 14 Long 091 14 31)

REMARKS.--Records furnished by Arkansas Department of Pollution Control and Ecology, Little Rock, Ark.

DATE	IMME-DIATE COLI-FORM (COL. PER 100 ML)	FECAL COLI-FORM (COL. PER 100 ML)	STREP-TOCOCCI (COL-ONIES PER 100 ML)
APR.			
24...	11400	1100	--
JUNE			
19...	1100	100	26
AUG.			
14...	475	60	269

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

ARKANSAS RIVER BASIN

07258500 Petit Jean River near Booneville, Ark. (Lat 35 06 25 Long 093 55 25)

REMARKS.--Records furnished by Corps of Engineers, Little Rock, Ark.

DATE	DIS-CHARGE (CFS)	CONCEN-TRATION (MG/L)
OCT. 31, 1972	4540	800
OCT. 31......	5690	850
OCT. 31......	6400	640
NOV. 1......	8400	130
NOV. 1......	11800	250
NOV. 2......	5160	100
NOV. 3......	763	40
NOV. 6......	11400	570
NOV. 6......	12500	410
NOV. 7......	2440	40
NOV. 7......	7440	100
NOV. 12......	164	30
NOV. 13......	3920	180
NOV. 13......	4180	450
NOV. 14......	916	50
NOV. 17......	284	30
NOV. 19......	1010	40
NOV. 19......	1480	50
NOV. 21......	424	20
JAN. 21, 1973	4890	180
JAN. 21......	5460	700
JAN. 22......	1190	60
FEB. 1......	2200	150
FEB. 1......	4770	670
FEB. 2......	996	40
FEB. 28......	144	50
MAR. 2......	1580	80
MAR. 2......	3960	210
MAR. 2......	3960	--
MAR. 3......	916	20
MAR. 4......	3820	160
MAR. 6......	2360	230
MAR. 6......	1580	60
MAR. 7......	2600	180
MAR. 8......	842	140
MAR. 9......	1240	170
MAR. 10......	8020	630
MAR. 10......	5880	360
MAR. 10......	2170	160
MAR. 10......	2170	--
MAR. 11, 1973	2780	300
MAR. 11......	3200	180
MAR. 11......	1490	80
MAR. 12......	937	40
MAR. 14......	1530	160
MAR. 15......	569	40
MAR. 24......	7700	390
MAR. 24......	4390	390
MAR. 25......	6200	80
MAR. 25......	11000	140
MAR. 26......	2500	60
MAR. 27......	1020	30
MAR. 31......	2440	130
MAR. 31......	3540	220
APR. 1......	833	30
APR. 3......	1530	70
APR. 4......	1020	30
APR. 5......	575	10
APR. 16......	4850	10
APR. 16......	6490	300
APR. 16......	6310	370
APR. 17......	1140	30
APR. 18......	2620	90
APR. 18......	1760	50
APR. 18......	2760	140
APR. 19......	982	20
APR. 22......	3500	520
APR. 22......	4780	730
APR. 23......	19000	280
APR. 24......	2620	140
APR. 25......	2160	120
APR. 25......	3310	310
APR. 27......	1040	40
MAY 2......	2740	230
MAY 2......	1790	120
MAY 3......	647	40
MAY 7......	1940	110
MAY 7......	2560	210
MAY 7......	2980	250
MAY 8......	689	40
MAY 23, 1973	626	690
MAY 23......	314	160
MAY 24......	178	50
MAY 27......	284	110
MAY 28......	108	60
MAY 29......	56	40
JUNE 2......	263	140
JUNE 2......	414	450
JUNE 3......	3970	240
JUNE 3......	3520	270
JUNE 3......	3580	350
JUNE 4......	972	80
JUNE 5......	6640	330
JUNE 5......	5420	170
JUNE 5......	6510	170
JUNE 5......	6640	290
JUNE 6......	1370	60
JUNE 7......	554	30
JUNE 17......	620	50
JUNE 17......	428	70
JUNE 18......	327	40
JUNE 19......	203	50
JUNE 20......	683	90
JUNE 21......	301	30
JUNE 22......	1100	90
JUNE 22......	1860	2340
JUNE 22......	2060	1210
JUNE 23......	650	130
JUNE 24......	251	40
JULY 23......	406	750
JULY 23......	479	810
JULY 24......	27	90
JULY 25......	20	40
SEP. 7......	358	630
SEP. 7......	1400	1300
SEP. 7......	1300	290
SEP. 8......	557	170
SEP. 9......	152	160

RED RIVER BASIN

07341500 Red River at Fulton, Ark. (Lat 33 36 26 Long 093 48 49)

REMARKS.--Records furnished by Corps of Engineers, New Orleans, La.

DATE	DEPTH TOTAL (FT)	DEPTH SAMPLED (FT)	MEAN CONCEN-TRATION (MG/L)
NOV. 28, 1972	27.2	16.3	68
NOV. 28......	29.3	17.5	59
JAN. 30, 1973	25.6	15.1	109
JAN. 20......	30.0	18.0	162
FEB. 27......	12.0	7.2	61
FEB. 27......	16.0	9.6	56
APR. 3......	31.0	18.6	166
APR. 3......	34.0	20.4	122
MAY 1, 1973	17.2	10.2	685
MAY 1......	26.0	15.6	447
JUNR 26......	15.0	9.0	123
JUNE 26......	32.0	18.2	85
JULY 31......	21.0	12.6	141
JULY 31......	22.0	13.2	105
SEP. 11......	30.0	16.8	677
SEP. 11......	28.0	18.0	497

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	(DEG C)	DATE	(DEG C)	DATE	(DEG C)
WHITE RIVER BASIN					
07048000 WEST FORK WHITE RIVER AT GREENLAND, ARK.					
OCT. 11, 1972	18.0	FEB. 21	9.0	JULY 3	26.5
NOV. 8	12.5	MAR. 21	12.0	AUG 7	23.5
DEC. 13	2.0	APR. 24	15.0	SEPT. 13	26.0
JAN. 17, 1973	7.5	MAY 30	20.0		
07048600 WHITE RIVER NEAR FAYETTEVILLE, ARK.					
OCT. 12, 1972	18.0	JAN. 22	6.0	MAY 30	18.5
NOV. 8	12.5	FEB. 21	5.5	JULY 3	26.0
DEC. 13	2.0	MAR. 21	10.0	AUG. 6	28.5
JAN. 17, 1973	4.5	APR. 23	14.5	SEPT. 11	27.5
07050500 KINGS RIVER NEAR BERRYVILLE, ARK.					
OCT. 10, 1972	18.0	FEB. 20	7.5	JULY 2	26.5
NOV. 7	14.0	MAR. 20	10.5	AUG. 6	24.5
DEC. 18	3.5	APR. 24	15.0	SEPT. 10	25.0
JAN. 16, 1973	5.0	MAY 31	18.5		
07055000 WHITE RIVER NEAR FLIPPIN, ARK.					
OCT. 12, 1972	12.5	DEC. 19	14.0	FEB. 27, 1973	5.0
07056000 BUFFALO RIVER NEAR ST. JOE, ARK.					
OCT. 12, 1972	21.5	JULY 25	27.5	SEPT. 27	23.0
FEB. 28, 1973	9.5	AUG. 22	27.0		
07064000 BLACK RIVER NEAR CORNING, ARK.					
OCT. 12, 1972	19.0	MAR. 29	15.0	AUG. 14	26.0
JAN. 18, 1973	5.5	JUNE 5	22.0	SEPT. 12	24.0
MAR. 1	7.5	JULY 10	26.5		
07069500 SPRING RIVER AT IMBODEN, ARK.					
OCT. 11, 1972	18.0	FEB. 28	9.0	JULY 9	25.0
DEC. 20	7.0	MAR. 28	13.0	AUG. 13	25.5
JAN. 17, 1973	8.0	JUNE 4	21.0	SEPT. 12	22.5
07072000 ELEVEN POINT RIVER NEAR RAVENDEN SPRINGS, ARK.					
OCT. 11, 1972	18.0	FEB. 28	11.0	AUG. 14	20.5
NOV. 9	12.0	APR. 24	16.0	SEPT. 11	22.0
DEC. 21	6.0	JUNE 4	19.5		
JAN. 17, 1973	8.0	JULY 10	20.5		
07073000 STRAWBERRY RIVER NEAR EVENING SHADE, ARK.					
OCT. 2, 1972	19.0	APR. 16	17.0	SEPT. 12	24.0
DEC. 26	8.0	APR. 23	21.5		
JAN. 15, 1973	5.5	AUG. 15	26.0		
07073500 PINEY FORK AT EVENING SHADE, ARK.					
OCT. 2, 1972	20.0	APR. 16	16.0	AUG. 15	26.5
DEC. 26	8.0	APR. 23	21.0	AUG. 28	26.5
FEB. 15, 1973	4.0	JUNE 11	25.0	SEPT. 11	24.5
07074000 STRAWBERRY RIVER NEAR POUGHKEEPSIE, ARK.					
DEC. 27, 1972	11.5	APR. 23	20.0	SEPT. 11	24.5
JAN. 16, 1973	6.0	JUNE 13	24.0		
APR. 17	18.0	AUG. 16	26.0		
07074500 WHITE RIVER AT NEWPORT, ARK.					
OCT. 10, 1972	19.0	APR. 25, 1973	18.0	SEPT. 21	18.0
NOV. 17	9.0	MAY 1	16.5		
07075000 MIDDLE FORK LITTLE RED RIVER AT SHIRLEY, ARK.					
JAN. 17, 1973	5.5	JULY 17	26.5	AUG. 20	31.5
JUNE 20	25.0				
07075300 SOUTH FORK LITTLE RED RIVER AT CLINTON, ARK.					
NOV. 27, 1972	8.0	JAN. 18, 1973	7.0	AUG. 20	31.0
DEC. 29	8.0	JULY 17	26.5		

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	(DEG C)	DATE	(DEG C)	DATE	(DEG C)
WHITE RIVER BASIN--Continued					
07076000 LITTLE RED RIVER NEAR HEBER SPRINGS, ARK.					
OCT. 5, 1972	11.0	FEB. 6, 1973	9.0	SEPT. 20	13.0
NOV. 29	3.5	MAY 23	12.0		
DEC. 20	8.0	JULY 25	11.0		
07076850 CYPRESS BAYOU NEAR BEEBE, ARK.					
JAN. 15, 1973	4.0	MAY 29	20.0	AUG. 9	27.0
APR. 24	18.5	JULY 3	27.0		
07077380 CACHE RIVER AT EGYPT, ARK.					
OCT. 9, 1972	17.5	FEB. 26	9.0	JULY 9	25.5
NOV. 7	13.0	MAR. 26	12.0	AUG. 13	25.5
DEC. 20	4.5	MAY 15	19.5	SEPT. 7	26.0
JAN. 15, 1973	4.0	JUNE 4	24.0		
ARKANSAS RIVER BASIN					
07195000 OSAGE CREEK NEAR ELM SPRINGS, ARK.					
OCT. 11, 1972	20.0	FEB. 20	10.0	JUNE 8	16.0
NOV. 6	14.0	MAR. 19	13.0	JULY 6	20.0
DEC. 11	3.5	APR. 23	19.0	AUG. 7	20.0
JAN. 15, 1973	9.5	JUNE 1	16.0	SEPT. 11	20.0
07195800 FLINT CREEK AT SPRINGTOWN, ARK.					
OCT. 11, 1972	18.0	FEB. 20	12.5	JUNE 1	16.5
NOV. 6	14.0	MAR. 19	14.0	JULY 6	18.5
DEC. 11	8.5	APR. 19	13.0	AUG. 7	20.5
JAN. 15, 1973	9.0	APR. 25	13.5	SEPT. 11	18.5
07196900 BARON FORK AT DUTCH MILLS, ARK.					
OCT. 12, 1972	19.5	FEB. 1	7.5	JUNE 1	20.0
NOV. 6	12.5	FEB. 21	6.0	JULY 3	26.5
DEC. 11	2.0	MAR. 19	12.0	AUG. 7	29.0
JAN. 15, 1973	3.5	APR. 19	14.0	SEPT. 13	25.5
JAN. 22	7.0	APR. 25	15.0		
07247000 POTEAU RIVER AT CAUTHRON, ARK.					
OCT. 30, 1972	13.5	MAR. 19	12.5	JULY 30	28.0
DEC. 5	7.0	APR. 17	11.0	SEPT. 5	24.5
JAN. 10, 1973	1.0	MAY 21	21.5		
FEB. 12	4.0	JUNE 27	26.0		
07249400 JAMES FORK NEAR HACKETT, ARK.					
NOV. 2, 1972	14.0	MAR. 19	11.0	JUNE 27	24.5
DEC. 7	4.0	MAR. 26	10.0	JULY 30	25.0
JAN. 10, 1973	2.5	APR. 18	11.0	SEPT. 6	25.0
FEB. 12	4.0	MAY 21	20.5		
07250000 LEE CREEK NEAR VAN BUREN, ARK.					
OCT. 30, 1972	14.0	MAR. 26	10.0	JULY 23	29.0
NOV. 29	7.0	APR. 10	11.0	AUG. 22	29.0
JAN. 10, 1973	2.5	MAY 14	18.0	SEPT. 25	25.0
FEB. 13	5.0	JUNE 20	22.0		
07252000 MULBERRY RIVER NEAR MULBERRY, ARK.					
OCT. 30, 1972	14.0	APR. 10	10.0	AUG. 22	29.0
NOV. 29	7.0	MAY 14	18.0	SEPT. 24	23.0
JAN. 11, 1973	2.0	JUNE 19	23.5		
FEB. 13	4.0	JULY 23	30.0		
07257000 BIG PINEY CREEK NEAR DOVER, ARK.					
OCT. 25, 1972	13.5	FEB. 27, 1973	8.5	JULY 9	29.0
NOV. 6	13.0	MAR. 30	14.5	AUG. 13	29.5
NOV. 20	7.5	MAY 7	18.0	SEPT. 19	20.0
DEC. 18	3.5	JUNE 13	22.0		
07258500 PETIT JEAN RIVER NEAR BOONEVILLE, ARK.					
OCT. 30, 1972	13.5	MAR. 20	11.5	JULY 30	25.5
DEC. 7	3.5	APR. 18	10.5	AUG. 29	26.0
JAN. 10, 1973	.5	MAY 21	23.0		
FEB. 12	4.0	JUNE 27	25.0		

TEMPERATURE ($^{\circ}C$) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	(DEG C)	DATE	(DEG C)	DATE	(DEG C)
ARKANSAS RIVER BASIN--Continued					
07259500 PETIT JEAN RIVER NEAR WAVELAND, ARK.					
OCT. 25, 1972	13.5	MAR. 14	14.0	JUNE 18	22.0
NOV. 28	9.5	APR. 11	10.5	JULY 24	26.0
JAN. 2, 1973	5.0	MAY 14	19.0	AUG. 29	25.0
07260000 DUTCH CREEK AT WALTREAK, ARK.					
OCT. 25, 1972	11.0	FEB. 5	9.0	JUNE 19	23.0
NOV. 27	9.0	MAR. 14	13.0	JULY 24	25.5
JAN. 3, 1973	6.0	MAY 15	16.0	AUG. 27	27.5
07260500 PETIT JEAN RIVER AT DANVILLE, ARK.					
OCT. 10, 1972	19.0	JAN. 2, 1973	5.0	MAY 14	20.0
OCT. 24	15.0	FEB. 5	7.0	JUNE 18	24.0
NOV. 27	9.0	MAR. 13	15.0	JULY 23	28.5
DEC. 13	3.5	APR. 10	10.5	AUG. 27	27.0
07261000 CADRON CREEK NEAR GUY, ARK.					
OCT. 10, 1972	16.5	AUG. 20	25.0	SEPT. 24	23.0
MAR. 1, 1973	8.0				
07261500 FOURCHE LAFAVE RIVER NEAR GRAVELLY, ARK.					
OCT. 26, 1972	18.0	MAR. 6	9.0	JULY 24	29.0
NOV. 29	7.0	APR. 11	16.5	AUG. 29	26.0
JAN. 6, 1973	4.0	MAY 16	22.0	SEPT. 26	23.0
FEB. 7	6.0	JUNE 20	28.5		
07262500 FOURCHE LAFAVE RIVER NEAR NIMROD, ARK.					
OCT. 24, 1972	15.0	APR. 25	18.0	AUG. 28	27.0
NOV. 28	8.5	MAY 15	14.5	SEPT. 18	23.5
JAN. 3, 1973	6.0	JUNE 19	21.5		
MAR. 13	14.5	JULY 23	27.0		
07263000 SOUTH FOURCHE LAFAVE RIVER NEAR HOLLIS, ARK.					
DEC. 13, 1972	8.0	APR. 23	16.5	JUNE 18	16.0
APR. 12, 1973	12.0				
07264000 BAYOU METO NEAR LONOKE, ARK.					
OCT. 31, 1972	18.0	FEB. 13	5.0	JULY 3	29.0
DEC. 4	8.0	APR. 27	19.5	AUG. 9	26.0
JAN. 16, 1973	3.5	MAY 29	19.5		
RED RIVER BASIN					
07337000 RED RIVER AT INDEX, ARK.					
OCT. 26, 1972	14.0	MAR. 14	16.5	MAY 23	24.0
FEB. 9, 1973	7.0	APR. 11	12.0	JULY 27	31.5
07339500 ROLLING FORK NEAR DEQUEEN, ARK.					
FEB. 8, 1973	7.0	APR. 12	12.0	JUNE 13	24.0
MAR. 16	14.0	MAY 24	22.5	JULY 25	29.0
07340000 LITTLE RIVER NEAR HORATIO, ARK.					
FEB. 7, 1973	8.5	APR. 11	12.0	JUNE 15	21.0
MAR. 15	13.0	MAY 23	19.5	JULY 26	25.5
07340300 COSSATOT RIVER NEAR VANDERVOORT, ARK.					
NOV. 1, 1972	14.0	MAR. 21	9.5	AUG. 1	22.0
DEC. 5	7.5	APR. 17	11.5	SEPT. 5	23.5
JAN. 11, 1973	2.5	MAY 22	21.0		
FEB. 13	8.0	JUNE 26	23.0		
07340500 COSSATOT RIVER NEAR DEQUEEN, ARK.					
OCT. 27, 1972	14.0	APR. 12	14.0	JULY 25	29.5
FEB. 8, 1973	7.0	MAY 24	23.5		
MAR. 16	14.0	JUNE 27	26.5		
07341000 SALINE RIVER NEAR DIERKS, ARK.					
OCT. 27, 1972	13.0	APR. 12	12.5	JULY 26	31.0
FEB. 9, 1973	7.0	MAY 24	26.0		
MAR. 15	15.0	JUNE 12	25.5		

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1972 TO SEPTEMBER 1973

DATE	(DEG C)	DATE	(DEG C)	DATE	(DEG C)
		RED RIVER BASIN--Continued			
		07341200 SALINE RIVER NEAR LOCKESBURG, ARK.			
FEB. 7, 1973	7.0	APR. 10	10.5	JUNE 12	26.0
MAR. 20	12.5	MAY 24	23.0	JULY 25	28.5
		07356000 OUACHITA RIVER NEAR MOUNT IDA, ARK.			
DEC. 4, 1972	8.0	MAR. 20	11.0	JULY 31	25.5
JAN. 11, 1973	2.0	MAY 23	22.5	SEPT. 4	26.0
FEB. 12	5.0	JUNE 25	25.5		
		07359800 OUACHITA RIVER NEAR MALVERN, ARK.			
DEC. 7, 1972	7.5	FEB. 14	7.0	AUG. 8	21.0
JAN. 10, 1973	3.5	MAY 31	19.5		
		07361000 LITTLE MISSOURI RIVER NEAR MURFREESBORO, ARK.			
OCT. 25, 1972	15.5	APR. 13	12.0	JULY 24	23.5
MAR. 13, 1973	11.0	JUNE 12	22.0		
		07361500 ANTOINE RIVER AT ANTOINE, ARK.			
OCT. 10, 1972	20.5	MAY 8	20.0	AUG. 6	26.0
FEB. 20, 1973	7.[illegible]	JUNE 5	19.5	SEPT. 11	26.0
APR. 2	14.[illegible]	JULY 9	24.0		
		07362100 SMACKOVER CREEK NEAR SMACKOVER, ARK.			
OCT. 12, 1972	19.0	MAY 10	19.0	AUG. 8	24.0
FEB. 22, 1973	7.0	JUNE 6	21.0		
APR. 4	13.0	JULY 11	24.0		
		07362500 MORO CREEK NEAR FORDYCE, ARK.			
OCT. 26, 1972	10.5	JAN. 4, 1973	7.0	MAY 23	22.0
NOV. 7	15.0	MAR. 14	17.0	JUNE 27	24.5
NOV. 28	7.0	APR. 18	17.5	AUG. 1	24.0
		07363000 SALINE RIVER AT BENTON, ARK.			
DEC. 7, 1972	8.5	APR. 20	15.5	JULY 2	29.0
JAN. 10, 1973	5.0	MAY 31	22.0	AUG. 8	27.0
		07363200 SALINE RIVER NEAR SHERIDAN, ARK.			
OCT. 27, 1972	14.0	FEB. 12, 1973	6.5	JUNE 28	26.0
NOV. 3	15.0	MAR. 15	15.5	AUG. 2	23.5
NOV. 30	7.0	MAY 24	22.0		
		07363300 HURRICANE CREEK NEAR SHERIDAN, ARK.			
NOV. 2, 1972	16.5	FEB. 12	7.0	JULY 5	26.0
DEC. 6	9.0	APR. 20	17.5	AUG. 10	24.0
JAN. 17, 1973	4.5	MAY 30	20.0	SEPT. 10	24.5
		07363500 SALINE RIVER NEAR RYE, ARK.			
OCT. 26, 1972	14.0	MAR. 20	15.5	JUNE 27	26.0
NOV. 29	7.0	APR. 18	16.5	AUG. 1	27.5
FEB. 7, 1973	11.5	MAY 23	21.5		
		07364150 BAYOU BARTHOLOMEW NEAR MCGEHEE, ARK.			
OCT. 25, 1972	15.0	MAR. 13	17.5	JUNE 26	26.0
NOV. 20	8.0	APR. 17	16.0	JULY 31	26.0
JAN. 3, 1973	6.5	APR. 26	18.5		
FEB. 6	11.0	MAY 22	22.5		
		07365800 CORNIE BAYOU NEAR THREE CREEKS, ARK.			
OCT. 11, 1972	19.5	APR. 3	15.0	JULY 10	24.5
NOV. 16	10.5	MAY 8	18.0	AUG. 7	25.0
FEB. 21, 1973	8.0	JUNE 6	21.0		

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